2200



machine China III.

model 2200

Stereophonic Receiver

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INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model 2200 Stereophonic Receiver.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the receiver.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

1. P.W. Board

As can be seen from the circuit diagram, the chassis of Model 2200 consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. FM/AM Tuner	mounted on P.W. Board P100
2. Phono Amplifier	mounted on P.W. Board P400
3. Power Amplifier	
4. Power Supply	mounted on P.W. Board P800
5. Dial Lamp	mounted on P.W. Board PZ01
6. Monitor, Switch	mounted on P.W. Board PT01
7. Muting, Switch	mounted on P.W. Board PH01
8. Tone Amplifier	mounted on P.W. Board PE01

Test Equipment Required for Servicing
 Table 1 lists the test equipment required for servicing the Model 2200 Receiver.

Item	Manufacturer and Model No.	Use
AM Signal Generator		Signal source for AM alignment.
Test Loop		Used with AM signal generator.
FM Signal Generator	Less than 0.3% distortion	Signal source for FM alignment.
Stereo Modulator	Less than 0.3% distortion	Stereo separation alignment and trouble shooting.
Frequency Counter		MPX oscillator adjustment (VCO).
Audio Oscillator	Weston Model CVO-100P, less than 0.02% residual distortion is required.	Sinewave and squarewave signal source.
Oscilloscope	High sensitivity with DC horizontal and vertical amplifiers.	Waveform analysis and trouble shooting, and ASO alignment.
VTVM	With AC, DC, RF range	Voltage measurements.
Circuit Tester	·	Trouble shooting.
AC Wattmeter	Simpson, Model 390	Monitors primary power to amplifier.
AC Ammeter	Commercial Grade (1-10A)	Monitors amplifier output under short circuit condition.
Line Voltmeter	Commercial Grade (0-150VAC)	Monitors potential of primary power to amplifier.
Variable Autotransformer (0-140VAC, 10 amps.)	Powerstat, Model 116B	Adjusts level of primary power to amplifier.
Shorting Plug	Use phono plug with 600 ohm across center pin and shell.	Shorts amplifier input to eliminate noise pickup.
Output Load (8 ohms, 0.5%, 100W)	Commercial Grade	Provides 8-ohm load for amplifier output termination.
Output Load (4 ohms, 0.5%, 100W)	Commercial Grade	Provides 4-ohm load for amplifier output termination.

Table 1. Test Equipment Required for Servicing

3. AM Alignment Procedure

3.1 AM IF Alignment

- 1. Connect a sweep generator to the test point A or J105 and an alignment scope to J112.
- 2. Rotate each core of IF transformer L203 and L204 for maximum height and flat top symmetrical response.

3.2 AM Frequency Range and Tracking Alignment

- 1. Set AM signal generator to 525 kHz. Turn the tuning capacitor fully closed (place the tuning pointer at the low end) and adjust the oscillator coil L202 for maximum audio output.
- 2. Set the signal generator to 1650 kHz. Place the tuning pointer in the high frequency end and adjust the oscillator trimmer on the oscillator tuning capacitor (CA-2) for maximum audio output.
- 3. Repeat steps 1 and 2 until nofurther adjustment is necessary.
- 4. Set the generator 600 kHz and tune the receiver to the same frequency and adjust a slug core of AM ferrite antenna for maximum output.
- 5. Set the generator to 1400 kHz and tune the receiver to the same frequency and adjust the trimming capacitors of Antenna (CA-1) for maximum output.
- 6. Repeat steps 4 and 5 until no further adjustment is necessary.

Note: During tracking alignment reduce the signal generator output as necessary to avoid AGC action.

4. FM Alignment Procedure

- 1. Connect an FM signal generator to the FM antenna terminals and an oscilloscope and an audio distortion analyzer to the tape output jacks on the rear panel.
- 2. Set the FM SG to 87.5 MHz and provide about 3 to 5 μ V. Place the tuning pointer at the low frequency end by rotating the tuning knob and adjust the core of oscillator coil L103 to obtain maximum audio output.
- 3. Set the FM SG to 108.5 MHz and provide about 3 to 5 μ V output. Rotate the tuning knob and place the tuning pointer at the high frequency end and adjust the trimming capacitor CF-3 for maximum output.
- 4. Repeat steps 2 and 3 until no further adjustment is necessary.
- 5. Set the FM SG to 90 MHz and tune the receiver to the same frequency. Decrease signal generator output until the audio output level decreases with the decreasing generator output. Adjust the antenna coil L101, RF coil L102 and IF transformer L105 for minimum audio distortion.
- 6. Set the FM SG to 106 MHz and tune the receiver to the same frequency. Adjust the trimming capacitor CF-1, CF-2 for minimum distortion.
- 7. Repeat steps 5 and 6 until no further adjustment is necessary. /.
- 8. Connect a DC VTVM with ±0.5 volt range selected to the test point (E) (J116) and adjust the secondary core (upper) of discriminator transformer L106 so that no voltage reading is obtained on the VTVM at no signal.

Next set the FM SG to 98 MHz and increase the output level to 1 k μ V, then tune the receiver to the same frequency so that no deflection is obtained.

Adjust primary core (bottom) of L106 for minimum distortion, and adjust the L107 for the maximum reading on the VTVM connected to the J114.

5. STEREO Separation Alignment

- 1. Set the FM SG to provide 1 $k\mu V$ at 98 MHz.
 - Tune the receiver to the same frequency perfectly.
- 2. Turn the FM SG modulation off (with the pilot signal turned off), connect a frequency counter to test point J120, and adjust R302 so that the frequency counter may precisely read 19 kHz.
- 3. Modulate the FM SG with stereo composite signal consisting of only subchannel signal (of course a pilot signal must be included).
- 4. Adjust the trimming resistor R301 for maximum and same separation in both channels.

6. Muting Circuit Alignment

Set the FM SG output to provide 25 μV (IHF) at 98 MHz and tune the receiver to the same frequency.

Adjust the trimming resistor R161 for the threshold level of 25 μ V (during this adjustment turn the MUTING pushswitch "on").

7. Audio Adjustment

Connect a VTVM across the resistor R735 and adjust the trimming resistor R727 until the VTVM reads 10.0 mV DC.

For the other channel connect the VTVM across the R736 and adjust the R728 for the same reading.

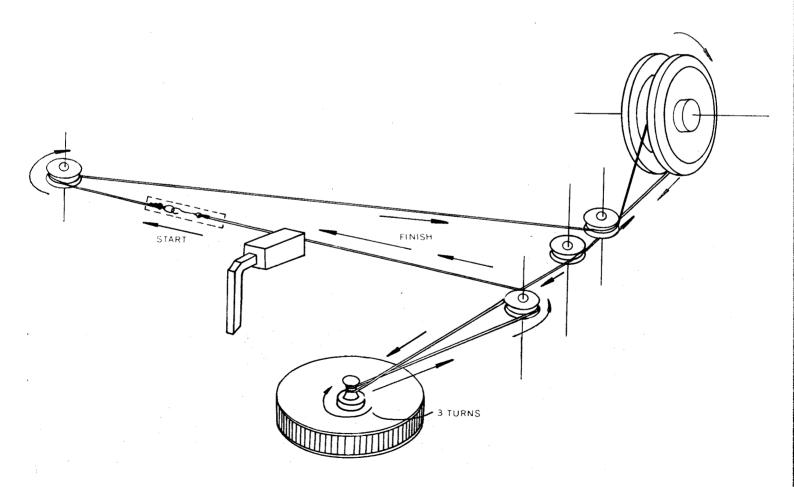


Figure 1. Dial Stringing





Figure 2. Front Panel Adjustment and Component Locations

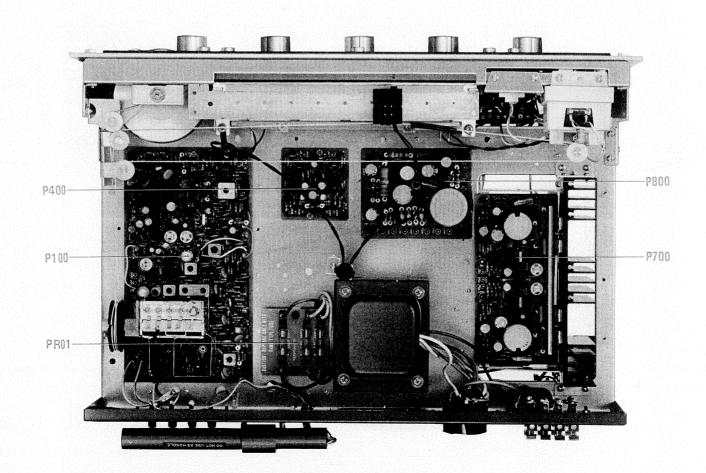


Figure 3. Main Chassis Component Locations (Top View)

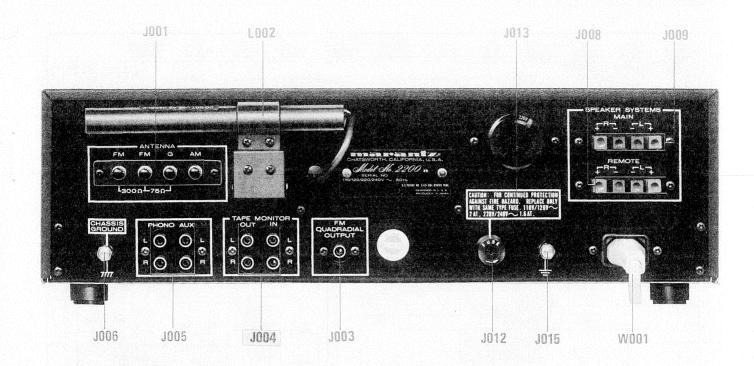


Figure 4. Rear Panel Adjustment and Facilities Locations

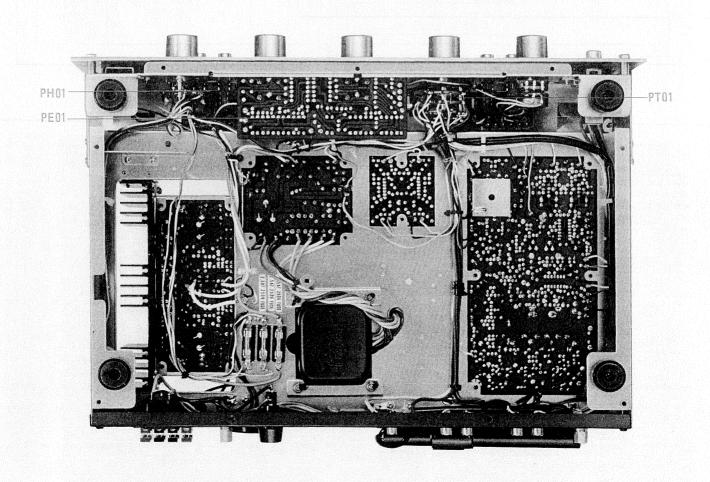


Figure 5. Main Chassis Component Locations (Bottom View)



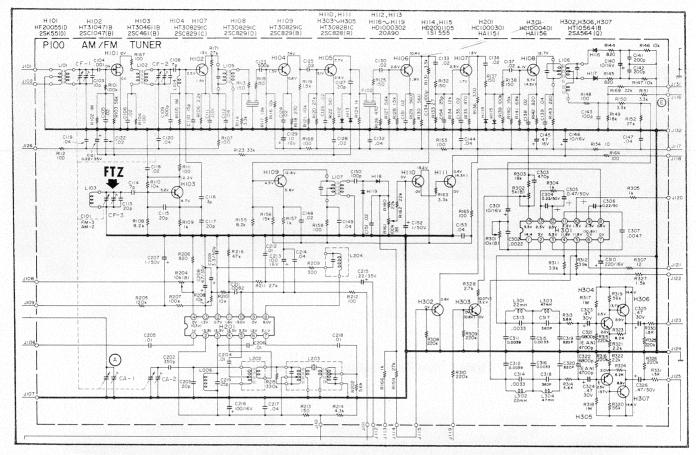


Figure 6. FM/AM Tuner Assembly (P100) Schematic Diagram

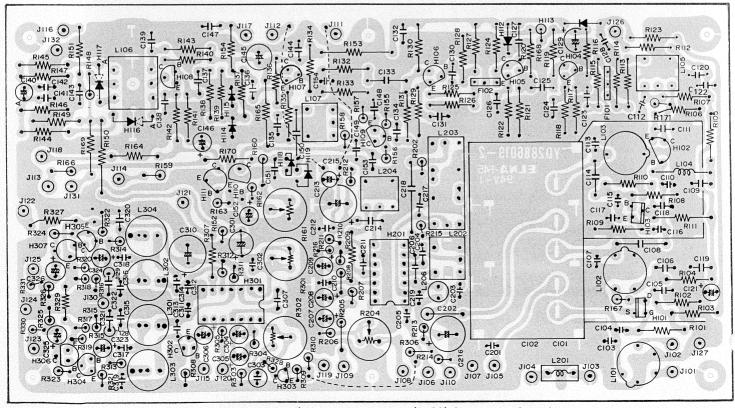


Figure 7. FM/AM Tuner Assembly (P100) Component Locations

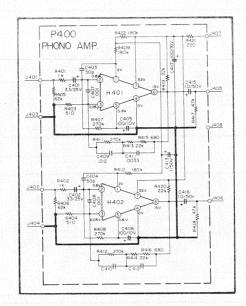


Figure 8. EQ Amplifier (P400) Schematic Diagram

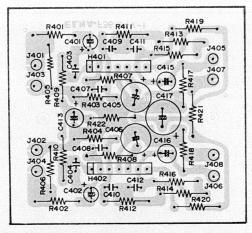


Figure 9. EQ Amplifier (P400) Component Locations



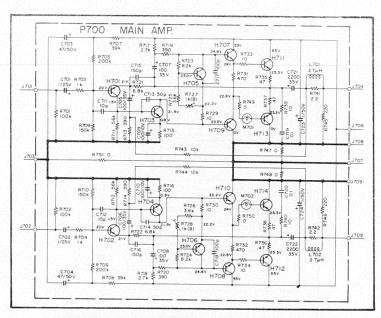


Figure 10. Main Amplifier (P700) Schematic Diagram

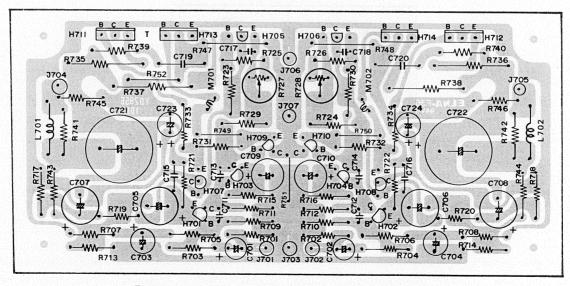


Figure 11. Main Amplifier (P700) Component Locations

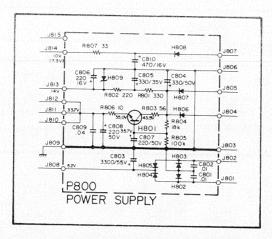


Figure 12. Power Supply Assembly (P800) Schematic Diagram

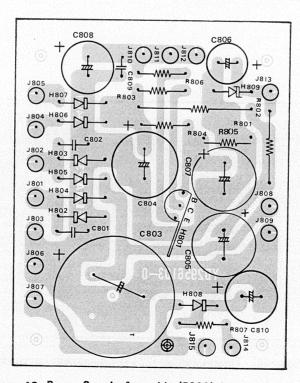


Figure 13. Power Supply Assembly (P800) Component Locations



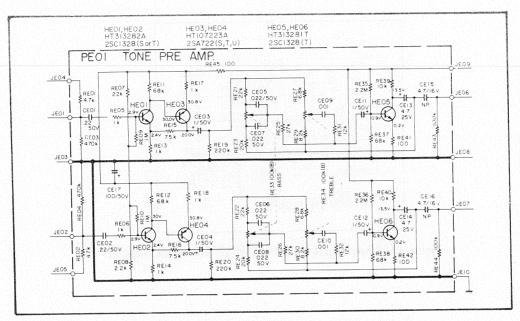


Figure 14. Tone Amplifier (PE01) Schematic Diagram

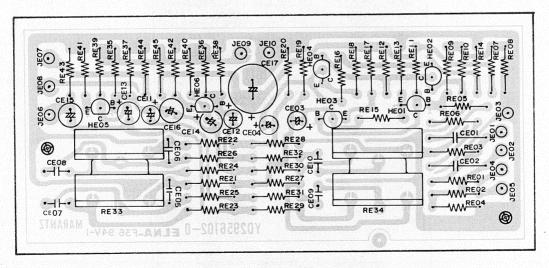


Figure 15. Tone Amplifier (PE01) Component Locations

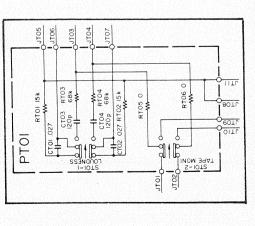


Figure 18. Loudness and Monitor Assembly (PT01) Schematic Diagram

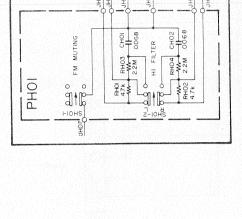


Figure 16. Muting Hi Filter Assembly (PH01) Schematic Diagram

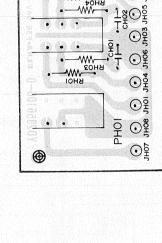


Figure 17. Muting Hi Filter Assembly(PH01 Component Locations

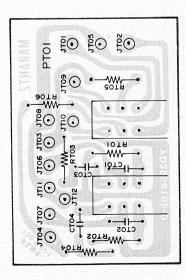


Figure 19. Loudness and Monitor Assembly (PT01) Component Locations

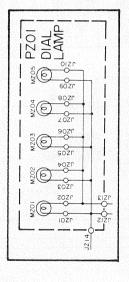


Figure 20. Dial Lamp Assembly (PZ01) Schematic Diagram

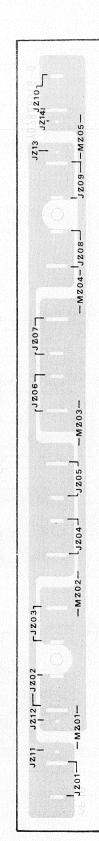
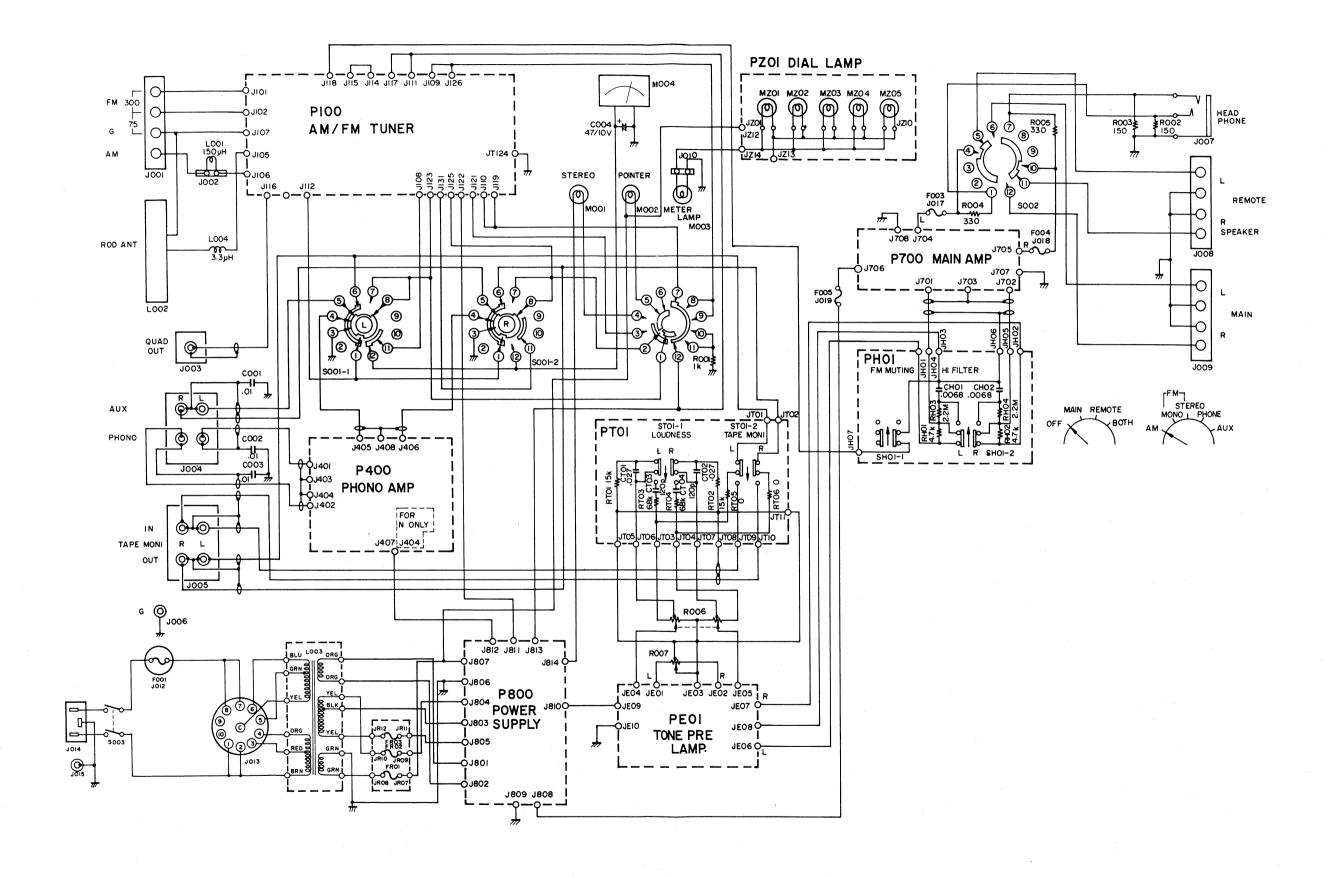


Figure 21. Dial Lamp Assembly (PZ01) Component Location

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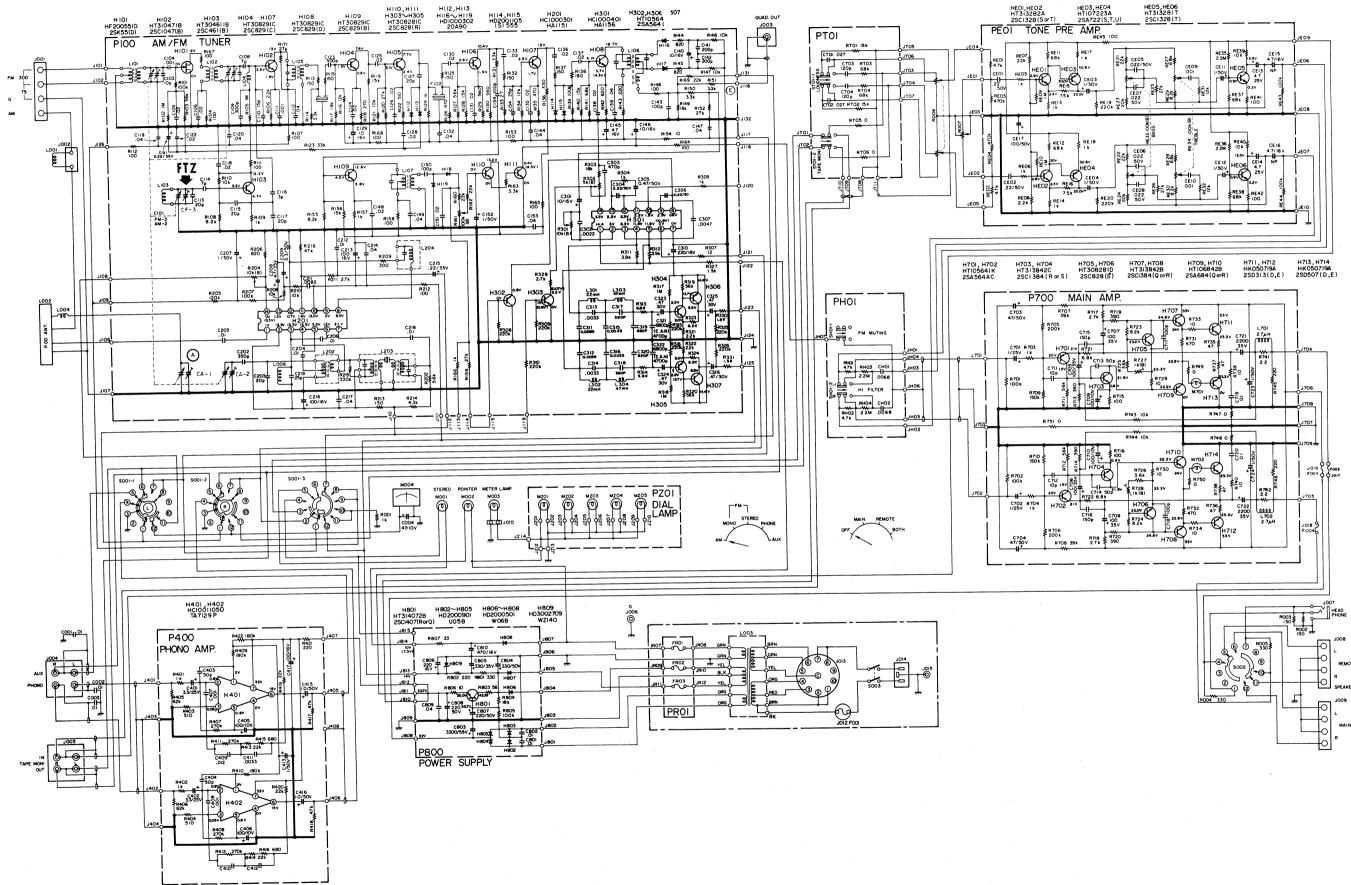


Figure 23. Schematic Diagram

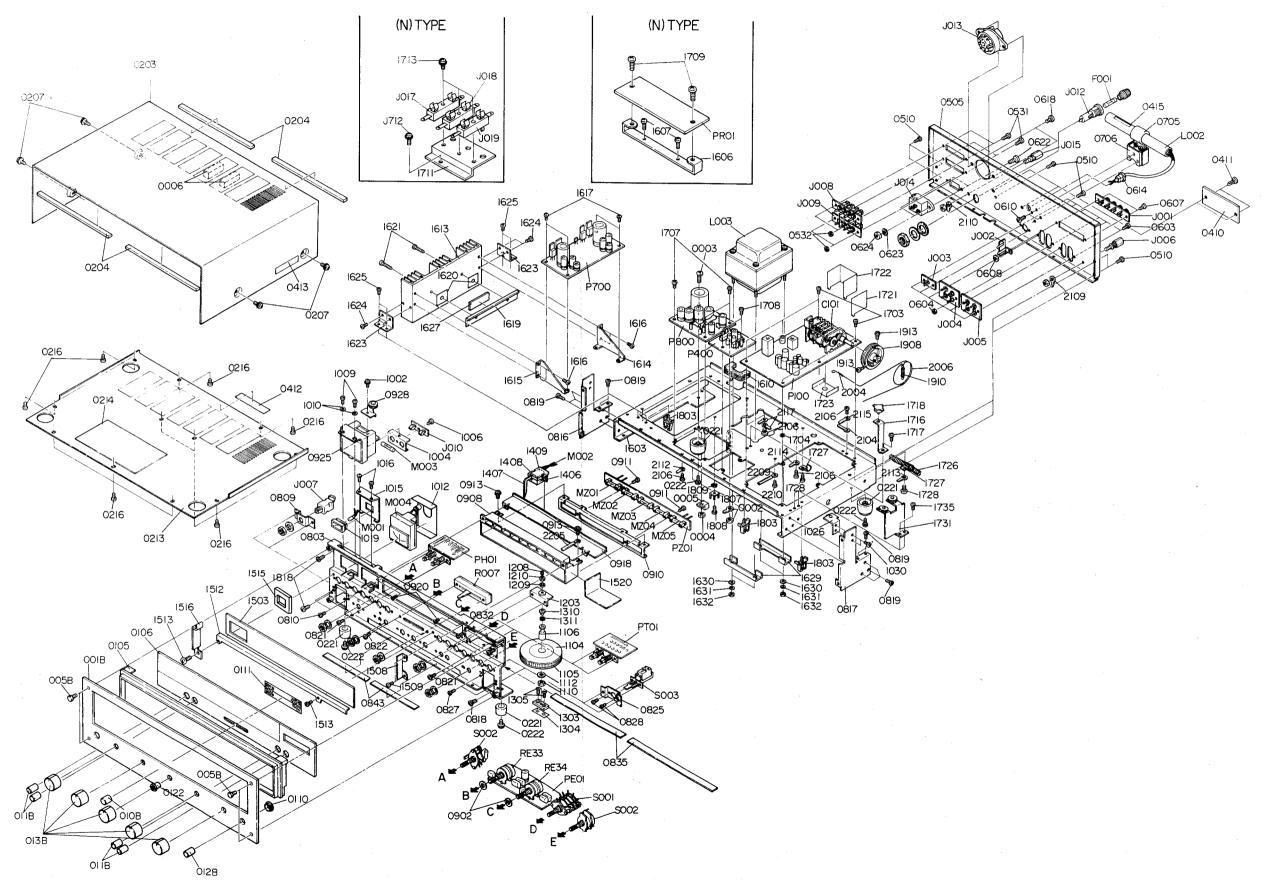


Figure 24. Exploded Mechanical Diagram

REF.	Ω ΤΥ			REF.	Q'TY		N : For Scandin		
DESIG.	N	PART NO.	DESCRIPTION	DESIG.	N	PART NO.	DESCF	RIPTION	
Α	1	2284063400	Front Panel Assembly (Gold)	0110		2000154020	K	*******	
001B	1	2284063010	Escutcheon (Gold)	011B 0115	4	2886154030	Knob		
0105	1	2853401016	Frame	0115 012B		2915053010	Cover		
0106	1	2284158010	Window	0128	1	2904154040 2927055010	Knob Collar		
0110	1	2818259050	Bushing	0122 013B	5	2959154010	Knob		
0111	1	2915107010	Sheet	0207	4	51480406S9	F. Washer Screw,	F4 x 6	
				0216	10	5110040889	B.H.M. Screw,	B4 x 6	
A1	1	2284063410	Front Panel Assembly (Black)	0221	4	2932057010	Leg	D4 X U	
001B	1	2284063110	Escutcheon (Black)	0222	4	51440410S9	L. Washer Screw	L4 × 10	
0105	1	2853401016	Frame	0410	i	2284265010	Indicator	L-1 X 10	
0106	1	2284158010	Window		-	220720077	mandato.		
0110	1	2818259050	Bush	0411	2	51750306B9	OS Screw	O3 x 6	
0111	1	2915107010	Sheet	0412	1	2578861010	Label	00 % 0	
				0413	1	2932861010	Label		
В	1	2956257400	Lid Assembly, Upper	0415	1	2506265060	Indicator		
0203	1	2956257110	Lid	0433	1	2882861020	Label		
0204	1	2577118070	Spacer	0434	2	9512601020	Label		
_				0506	1	2956160230	Bracket		
C	1	2956257410	Lid Assembly, Lower	0510	6	51280306U0		B3 x 6	
0213	1	2956257022	Lid	0531	4	5110030859	B.H.M. Screw	B3 x 8	
0214	1	2888120010	Insulator	0532	4	53110303A9	Hexagon Nut		
D	1	2853273400	Flywheel Assembly	0603	6	5110030859	B.H.M. Screw	B3 x 8	
003B	2	2577063022	Escutcheon	0604	6	53110303A9	Hexagon Nut		
1105	1	2577273010	Flywheel	0607	2	51100308S9	B.H.M. Screw	B3 x 8	
1106	1	2853112010	Shaft	0608	1	53110303E9	Hexagon Nut		
1110	1	53110603E9	Hexagon Nut	0610	3	51100306S9	B.H.M. Screw	B3 x 6	
1112	1	54020601E0	Flat Washer, P	0614	1	1455259030	Bush		
_		0045400040	la	0618	2	51100308\$9	B.H.M. Screw	B3 x 8	
E	1	2915103040	Pointer Assembly	0621	1	54050400R0	T.L. Washer OR		
1406	1	2915103013	Pointer	0622	2	51100308S9	B.H.M. Screw	B3 x 8	
1407	1	2818103022	Pointer	0623	2	54050300R0	T.L. Washer OR		
1408	1	2915103020	Pointer	l i					
1409	1	2915267030	Heatsink	0624	2	53110303E9	Hexagon Nut		
M002	1	1N10080300	Lamp .	0705	1	2819271130	Holder	•	
_		2010150410	D	0706	1	2578160520	Bracket		
F 1000	1	2819159410	Drum Assembly	0707	1	2578160050	Bracket		
1908 1910	1 1	2819159012 71101569M0	Drum	0708	1	2578160060	Bracker		
1913	1	51064019A9	Spring Set Screw	0709	2	5502030410	S.H. Rivet		
1913	'	51004019A9	Set Screw	0711	2	51280312U0		B3 × 10	
G	1	1202006400	Hook Assembly	0716	2	-51280312U0	, ,	B3 x 12	
2004		1202008400	Hook Assembly	0803	1	2915160500	Bracket		
2005	1	72080802A0	Hook String	0804	1	2915160015	Bracket		
				0805	2	2884101020	Support		
	1			0806	2	2884101010			
	1			0809	1	2915160060	1 ' '		
				0810	2	51100306A9		B3 × 6	
				0816	1	2818160030			
				0817	1	2818160040			
	1			0818	4	51100405A9		B4 x 5	
	1	1		0819	10	51570306B0		P3 x 6	
	1			0821	4	51100306A9		B3 × 6	
0001	1	53110303A9	Hexagon Nut	0822	2	51100306A9		B3 x 6	
0001	1	62030039W0		0825	1	2015160050	Brastint		
0002	i	53110303A9	, ,	0825	1	2915160050		D2 C	
0002	1	62030049W0		0827	2 2	51100306A9		B3 × 6	
0003	1	5157031080	P. Tapped Screw, P3 x 10	0832	2	51060306A9 51490308A9		120	
0004	1	53110303A9		0834	2	2886120020		L3 × 8	
0005	1	2887005110	Clamper	0835	2	2916120010			
0006	2	2963056010	Buffer	0902	2	1			
005B	4	52017039J0	H. Head Bolt	0902	1	2927055020			
010B	i	2850154010	Knob	0908	1	2871274110	l		
_	1			0910	2	2871271010	1	D2 v C	
			*	0911	4	51570306B0	P. Tapped Screw	P3 x 6	
	1								
	1	1		[]	1				

N : For Scandinavia

REF. DESIG.	Q'TY N	PART NO.	DESCR	IPTION	REF. DESIG.	Q'TY N	PART NO.	DESCR	RIPTION
0913	2	51480306A9	F. Washer Screw	F3 x 6	1630	4	54020401A0	Flat Washer, P	
0918	1	2871051020	Guide	. 5 / 0	1631	4	54020401A0	Spring Washer	
0920	2	51042608A0		F2.6 x 8	1632	4	53110403A9		
0925	1	2854274010	Reflector	1 2.0 X G	1636	2	1	Hexagon Nut	
0928	1	2956262500	Pulley		11		54040302A0	Spring Washer	D2 0
0928	1	2956160010	Bracket		1703	6	51280308U0	B.H. Tapped Screw	B3 x 8
0929	1	1370112030	Shaft		1704	1	59030810P0	Washer	20 0
0930	1	2577262010			1707	3	51570306S0	P. Tapped Screw	P3 × 6
	1		Pulley	E0 0	1708	2	51570306S0	P. Tapped Screw	P3 x 6
1002	1	51480308A9	F. Washer Screw	F3 x 8	1709	2	51100306S9	B.H.M. Screw	B3 × 6
1004	1	2854271010	Holder		1711	1	2956160100	Bracket	
1006	1	51570305B0	P. Tapped Screw	P3 x 5	1712	1	51570306B0	P. Tapped Screw	P3 × 6
1009	2	51570306B0		P3 x 6	1713	3	51062606B0	P.H.M. Screw	P2.6 x 6
1010	2	i .	T.L. Washer OR		1716	1	2927160050	Bracket	
1012	1	2886107010	Sheet		1717	1	51570306B0	P. Tapped Screw	P3 × 6
1015	1	2915160040	Bracket		1718	1	2908259010	Bush	
1016	2	51570306B0	P. Tapped Screw	P3 x 6	1721	1 1	2821109010	Shield	
1019	1	2912259010	Bushing		1722	1	3896109030	Shield	
1026	1	2956262520	Pulley		1723	1 1	2850109020	Shield	
1027	1	2956160090	Bracket		1726	1	2881109060	Shield	
1028	1	2577262010	Pulley		1727	2	2956005020	Clamper	
1029	1	1370112030	Shaft		1728	2	51570306B0	P. Tapped Screw	P3 × 6
1030	2	51100305A9		B3 x 5	1728	1	2956262510	Pulley	13 X U
1203	1	2853106500	Sustainer	D0 × 0	11			•	
1204	1	2818106012	Sustainer		1732		2956160060	Bracket	
1205	li	2853106010	Sustainer		1733	2	1370112030	Shaft	
1208	1	51640410D9			1734	2	2577262010	Pulley	DO 0
1208			1		1735	2	51570306B0	P. Tapped Screw	P3 x 6
	1	54040402N0	1 ' 7		1803	4	2886005060	Clamper	
1210	11	53110403E9			1804	3	2886005050	Clamper	
1303 1304	1 1	2577106020 1415118010	Sustainer Spacer		1807 1808	1	2910123010 51570306B0	Contactor P. Tapped Screw	P3 x 6
400=		-404000040							
1305	2	51040306A9		F3 x 6	1809	1	54050300R0	T.L. Washer OR	
1310	1	2850112020	Shaft		2008	1	56332040G0	Eyelet	
1311	1	54040402N0	, ,		2104	1	62030049W0	Lug	
1503	1	2284302010	Dial		2106	6	51570306B0	P. Tapped Screw	P3 x 6
1508	1	2284269020	Protector		2109	1	62040029W0	Lug	
1509	2	51570305B0	1 ' '	P3 x 5	2110	1	62040029W0	Lug	
1512	1	2284269010			2112	1	62030039W0	Lug	
1513	2	51570305B0	P. Tapped Screw	P3 x 5	2113	1	62030049W0	Lug	
1515	1	2284053010	Cover		2114	1	62030049W0	Lug	
1516	1	2284269030	Protector		2115	1	62030049W0	Lug	
1520	1	2819120050	Insulator		2117	2	62030049W0	Lug	
1603	1	2956105500	Chassis		2205	1	1382005030	Clamper	
1604	1	2956105010	Chassis		2206	2	51570306B0	P. Tapped Screw	P3 × 6
1605	1	2956101010	Support		2209	1	2871005010	Clamper	
1606	1	2854160030	Bracket		2210	1	51570306B0	P. Tapped Screw	P3 × 6
1607	2	51570306B0	P. Tapped Screw	P3 x 6	2303	1	2284851310	Instructions	
1610	1	2889259010	Bushing		2327	1	2818813010	Envelope	
1613	1	3899267010	Heatsink		2404	2	2221803010	Partitioner	
1614	1	2956160020	Bracket		2406	1	2284801010	Packing Case	
1615	1	2956160030	Bracket		2411	1	2918107150	Sheet	
1616	4	51380306P0	P.H. Tapped Screw	P3 x 6	2412	1	9014538350	Polyethylene Bag	
1617	4	5110031289	B.H.M. Screw	B3 x 12	2412	'1	9014538350	Polyethylene Bag	
1619	1	2956005010	Clamper		11	I .	1		
1620	2	2874118010	Spacer		2418	1	9560000043	Hang Tag	
1621	2	51100312A9	'	B3 x 12	2419	1	2731821010	Silicagel	
1623	2	2956160040	Bracket	50 A 12	2420	1	2819056010	Buffer	
	4	51380306P0	P.H. Tapped Screw	P3 x 6	2421	1	2956807010	Reinforcing	
1624	1	1			2425	4	9526019030	Serial No Card	
1625	4	51570306B0	1 ' '	P3 × 6	2430	1	2882861010	Label	
1627	1	3917118010	1 7		2432	1	ZA02000070		
1629	2	2956160050	Bracket		7236	2	1382005030	Clamper	
1		1			- 11		1	1	

REF.	QTY			REF.	Q'TY				
DESIG.	N	PART NO.	DESCRIPTION	DESIG.	N	PART NO.		DESCRIP1	TION
7936	1	2956160080	Bracket	C148	1	DK18203020	Ceramic Cap.	0.0205	± 100 %
7937	2	51570306B0	P. Tapped Screw P3 x 6	C149		DK18203020	Ceramic Cap.,		± 100 %
	1		Label	C150	1	DD16101010			± 10%
7938	1	9512601040	100	11	ı				
8136	1	2886005020	Clamper	C151	1	DK18203020			± 100 %
8536	1	9510911070	Label	C152	1	EA10505090	Electrolytic C		50V
8637	1	2818851140	Instructions	C153	1	DK18403020	Ceramic Cap.,		± 100 %
8639	1	2818851120	Instructions	C154	1	DD15250020	•		± 5%
8640	1	9630000180	Guarantee Card	F101	1	FF11070050	Ceramic Filte		
1				F102	1	FF11070050	Ceramic Filte		
ľ	1		P100 TUNER BOARD	H101	1	HF200551D0	F.E.T.	2SK55	(D)
P100	1	YD28860190	P.W. Board						
	1	ZZ29568190	P.W. Board Assembly	H102	1	HT31047180		2SC1047	(B)
İ		,		H103	1	HT304611B0	Transistor	2SC461	(B)
P107	1	3444118050	Spacer	H104	1	HT308291C0	Transistor	2SC829	(C)
P108	8	2933118020	Spacer	H105	1	HT310472B0	Transistor	2SC1047	(B)
C101	1	CA32500020	Variable Cap.,	H106	1	HT308291C0	Transistor	2SC829	(C)
C103	1	DD12100010	Ceramic Cap., 10pF ±1pF	H107	1	HT308291C0	Transistor	2SC829	(C)
C104	1 1	DK17102010	Ceramic Cap., 1000pF ± 20%	H108	1	HT308291D0	Transistor	2SC829	(D)
C105	1	DK18203020	Ceramic Cap., 0.02µF ± 100%	H109	1	HT308291B0		2SC829	(B)
C106	1	DK18203020	Ceramic Cap., 0.02µF ± 100 %	H110	1	HT308281C0		2SC828	(C)
C107	1	DD12100010		H111	i	HT308281C0		2SC828	(C)
C108	li	DD12070030	1	II	1 '	55525160			, ,
C109	1	DD15301020		H112	1	HD10003020	Diode	20A90	
0.03	'	DD 13301020	Geraine Sup., Soopi = 5%	11	1				
C110	1	DD16150030	Ceramic Cap., 15pF ±10pF	H113	1	HD10003020		20A90	
		DK17102010	1	H114	1	HD20011050		181555	
C111	1		1	H115	1	HD20011050	1	1S1555	
C112	1	DK18403020	1	H116	1	HD10003020	1	20A90	,
C113	1	DD15200020	1	H117	1	HD10003020	1	20A90	
C114	1	DD12070030		H118	1	HD10003020	l .	20A90	
C115	1	DD15200010	1	H119	1	HD10003020	Diode	20A90	
C116	1	DD11030010	1	J101	1	YP10001140	Plug		
C117	1	DD15200010		J102	1	YP10001140	Plug		
C118	1	DK18203020		11		1	_		
C119	1	DK18403020	Ceramic Cap., 0.04μF ± 100%	J105	1	YP10001140	Plug		
				J106	1	YP10001140			
C120	1	DK18403020	Ceramic Cap., 0.04μF ± 106%	J107	1	YP10001140	Plug		
C121	1	EV22403560		J108	i	YP10001140	. •		
C122	1	DK18203020		J109	1	YP10001140	Plug		
C123	l i	DD16501010		J110	1	YP10001140	Plug		
C124	1	DK18203020	1	J111	li	YP10001140	Plug		
C125	1	DK18203020		J112	l i	YP10001140	Plug		
C126	;	DK18203020	• · · · · · · · · · · · · · · · · · · ·	J113	1	YP10001140	Plug		
C127	1	DD16200010		J114	1	YP10001140	Plug		
C127	1	DK18203020	1	3114	'	17 10001140	riug	•	
1				1145	4	VB10001140	Blue		
C129	1	EA10601690	Electrolytic Cap., 10μF 16V	J115	1	YP10001140	Plug		
0400	4	DK4000000	Ceramic Cap., 0.02μ F $\pm \frac{100}{6}\%$	J116	1	YP10001140] -		
C130	1	DK18203020	Ceramic Cap., 0.02μF ± 100 %	J117	1	YP10001140	1 -		
C131	1	DK18203020	Ceramic Cap., $0.02\mu F \pm \frac{100}{0}\%$	J118	1	YP10001140	_		
C132	1	DK18403020		J119	1	YP10001140			
C133	1	DK18203020		J120	1	YP10001140			
C134	1	DD16101010		J121	1	YP10001140			
C135	1	DK18203020		J122	1	YP10001140	_		
C136	1	DK18203020		J123	1	YP10001140			
C137	1	DK18203020		J124	1	YP10001140	Plug		
C138	1	DK18203020					1		
C139	1	DK18403020	Ceramic Cap., 0.04μ F $\pm {}^{10}\%$	J125	1	YP10001140	Plug		
				J126	1	YP10001140	Plug		
C140	1	EA10601690		J131	1	YP10001140	1 -		
C141	1	DD16201010	Ceramic Cap., 200pF ± 10%	J132	1	YP10001140			
C142	1	DD16201010	· _ · _ · _ · _ · _ · _ · _ · _ ·	L101	1	LA12026120			
C143	1	DD16101010		L102	1	LA12026100			
C144	1	DK18403020	100	L103	1	LO12036010			
C145	li	EA47601690	1	L104	1	LC17510010			
C146	1	EA10601690		3 I	ľ		L		
C146	1	DK18403020	1	L105	1	LI10016010	1.F.T.		
1 014/	"	DK 10403020	J Gerainic Gap., U.Ο+μΓ ± 0.70	L106	1	LI14016230	I.F.T.		
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N : For Scandinavia

8136 1 2886005020 Clamper C151 1 DK18203020 Ceramic Cap., 0.02μ F \pm 100 8 8536 1 9510911070 Label C152 1 EA10505090 Electrolytic Cap., 1μ F 50 8637 1 2818851140 Instructions C153 1 DK18403020 Ceramic Cap., 0.04μ F \pm 100 8	REF. DESIG.	Q'TY N	PART NO.	DESCRIPTION	REF. DESIG.	Q'TY N	PART NO.	DESCRI	PTION
1	7000		0050400000	Description	64.45		DV4000000	0	+ 100 or
1		,			1	1	1 1		
1 288606902 Clamper			1		1	1	1 1		
1		1			l i	1	1		
1 2818851140 Instructions	8136	1	2886005020	Clamper	C151	1	DK18203020		
1 281885120 Garante Card File	8536	1	9510911070	Label	C152	1	EA10505090	Electrolytic Cap., 1μF	50V
1 281885120	8637	1	2818851140	Instructions	C153	1	DK18403020	Ceramic Cap., 0.04µF	± 100 %
					l I				
P100					ł I	1			_ 3/0
P100	0040	,	9030000180	Guarantee Caru	11	ı			
1				2400 714150 00400	11	1			/ - -1
1 ZZ29568190 P.W. Board Assembly				,	H101	1	HF200551D0	F.E.1. 2SK55	(D)
Property 1	P100	1	!						
P107		1	ZZ29568190	P.W. Board Assembly	H102	1	HT31047180	Transistor 2SC1047	7 (B)
Pio8 8 2933118020 Spacer					H103	1	HT304611B0	Transistor 2SC461	(B)
Pio8 8 2933118020 Spacer	P107	1	3444118050	Spacer	H104	1	HT308291C0	Transistor 2SC829	(C)
Case Capacida Ca				·	11	1			
1 DD12100010 Caramic Cap., 100P				I -	11				
1		1			\$ I	1	l :		
1					11	ł	4		
C106		1	1 -		11	1			
C108		1 '	1	Ceramic Cap., 0.02μ F $\pm 100\%$	H109	1			(B)
C108		1			H110	1	HT308281C0	Transistor 2SC828	(C)
C109	C107	1	DD12100010		11	1	I .		
C100		1		1	II	1			,
C110 1 DD16150030 Ceramic Cap. 15pF ±10pF H114 1 HD10003020 Diode 2OA90 C111 1 DK18403020 Ceramic Cap. 0.04µF ± 10pF H116 1 HD10003020 Diode 2OA90 C114 1 DD15200020 Ceramic Cap. 20pF ± 5% H119 1 HD10003020 Diode 2OA90 C114 1 DD15200010 Ceramic Cap. 20pF ± 5% H119 1 HD10003020 Diode 2OA90 C115 1 DD15200010 Ceramic Cap. 20pF ± 5% H119 1 HD10003020 Diode 2OA90 C116 1 DD1520010 Ceramic Cap. 20pF ± 5% H119 1 HD10003020 Diode 2OA90 C116 1 DD1520010 Ceramic Cap. 20pF ± 5% H119 1 HD10003020 Diode 2OA90 C116 1 DD1520010 Ceramic Cap. 20pF ± 5% H119 1 HD10003020 Diode 2OA90 C116 1 DD1520010 Ceramic Cap. 20pF ± 5% H119 1 HD10003020 Diode 2OA90 C116 1 DD1520010 Ceramic Cap. 20pF ± 5% H119 1 HD10003020 Diode 2OA90 C117 1 DD1520001 Ceramic Cap. 20pF ± 5% J101 1 YP10001140 Plug Plug Plug Plug Plug Plug Plug Plug			1			1	HD10003030	Diode 20 A00	
C110	2.00	'			1 I	L	1		
C111 1 DK17102010 Ceramic Cap., 1000pF ± 20% H115 1 HD20011050 Diode 20A90 C112 1 DK18403020 Ceramic Cap., 0.04µF ± 19F H116 1 HD10003020 Diode 20A90 C114 1 DD15200020 Ceramic Cap., 20pF ± 5% H119 1 HD10003020 Diode 20A90 C115 1 DD15200010 Ceramic Cap., 20pF ± 5% H119 1 HD10003020 Diode 20A90 C116 1 DD11300010 Ceramic Cap., 3pF ± 05pF J101 1 YP10001140 Plug C117 1 DK18403020 Ceramic Cap., 0.02µF ± 10% J106 1 YP10001140 Plug C120 1 DK18403020 Ceramic Cap., 0.04µF ± 10% J106 1 YP10001140 Plug C121 1 EV2240366 Electrolytic Cap., 0.02µF ± 10% J10 1 YP10001140 Plug C122	C110	4	DD16150030	Coromia Con 15n5 +10n5	11				
C113 1 DN18200020 Ceramic Cap., 0.04µF 1 DD15200010 Ceramic Cap., 20pF 1 DD15200010 Ceramic Cap., 20pF 1 DD15200010 Ceramic Cap., 20pF 1 DD15200010 Ceramic Cap., 3pF 1 DD15200010 Ceramic Cap., 3pF 1 DD11820010 Ceramic Cap., 20pF 1 DD1820010 Ceramic Cap., 0.02µF 1 DN1820000 Ceramic Cap., 0.02µF 1 DN1820000 Ceramic Cap., 0.04µF 1 DN1820000 Ceramic Cap., 0.04µF 1 EV22403660 Electrolytic Cap., 0.02µF 1 DN1820000 Ceramic Cap., 0.02µF 10 N1820000 Ceramic Cap., 0.02µF 100 N1820000 Ceramic Cap., 0.04µF 100 N1820000					11	1			
C113					11	1	l .		
C114 1 DD12070030 Ceramic Cap. 7pF ±1pF H118 1 HD1003020 Diode 20A90 C116 1 DD15200010 Ceramic Cap. 20pF ± 5% H119 1 HD1003020 Diode 20A90 C117 1 DD15200010 Ceramic Cap. 20pF ± 5% J101 1 YP10001140 Plug C119 1 DK18203020 Ceramic Cap. 0.02µF ± 10g% J105 1 YP10001140 Plug C120 1 DK18203020 Ceramic Cap. 0.04µF ± 10g% J107 1 YP10001140 Plug C121 1 EV22403560 Electrolytic Cap., 0.22µF ± 10g% J107 1 YP10001140 Plug C122 1 DK18203020 Ceramic Cap., 0.02µF ± 10g% J110 1 YP10001140 Plug C123 1 DK18203020 Ceramic Cap., 0.02µF ± 10g% J111 1 YP10001140 Plug <td></td> <td> 1</td> <td>1</td> <td>1</td> <td> H116</td> <td>1</td> <td>HD10003020</td> <td>Diode 20A90</td> <td></td>		1	1	1	H116	1	HD10003020	Diode 20A90	
C115	C113	1	DD15200020	Ceramic Cap., 20pF ± 5%	H117	1	HD10003020	Diode 20A90	
C116	C114	1	DD12070030	Ceramic Cap., 7pF ±1pF	11	1	1		
C116 1 DD11030010 Ceramic Cap. 3pF ± 0.5pF J102 1 YP10001140 Plug C117 1 DD15200010 Ceramic Cap. 20pF ± 5% J102 1 YP10001140 Plug C119 1 DK18203020 Ceramic Cap. 0.02μF ± 10% J106 1 YP10001140 Plug C120 1 DK18403020 Ceramic Cap. 0.02μF ± 10% J107 1 YP10001140 Plug C121 1 DK18203020 Ceramic Cap. 0.02μF ± 10% J107 1 YP10001140 Plug C122 1 DK18203020 Ceramic Cap. 0.02μF ± 10% J110 1 YP10001140 Plug C124 1 DK18203020 Ceramic Cap. 0.02μF ± 10% J111 1 YP10001140 Plug C125 1 DK18203020 Ceramic Cap. 0.02μF ± 10% J111 1 YP10001140 Plug		1 '			11	1	1		
C117 1 DD15200010 Ceramic Cap., 20pF ± 10% 5% J102 1 YP10001140 Plug C119 1 DK18403020 Ceramic Cap., 0.04μF ± 10% J105 1 YP10001140 Plug C120 1 DK18403020 Ceramic Cap., 0.04μF ± 10% J106 1 YP10001140 Plug C121 1 EV22403560 Electrolytic Cap., 0.02μF ± 10% J108 1 YP10001140 Plug C122 1 DK18203020 Ceramic Cap., 0.02μF ± 10% J109 1 YP10001140 Plug C123 1 DK18203020 Ceramic Cap., 0.02μF ± 10% J111 1 YP10001140 Plug C124 1 DK18203020 Ceramic Cap., 0.02μF ± 10% J111 1 YP10001140 Plug C126 1 DK18203020 Ceramic Cap., 0.02μF ± 10% J114 1 YP10001140 Plug C127 1 DD16200010 Ceramic Cap., 0.02μF ± 10% J114 1 YP10001140 Plug			1		11	1		l .	
C118 1 DK18203020 Ceramic Cap., 0.02μF ± 10% % J105 1 YP10001140 Plug C120 1 DK18403020 Ceramic Cap., 0.04μF ± 10% % J106 1 YP10001140 Plug C121 1 EV22403660 Electrolytic Cap., 0.22μF 35V J107 1 YP10001140 Plug C122 1 DK18203020 Ceramic Cap., 0.02μF ± 10% % J107 1 YP10001140 Plug C123 1 DD16501010 Ceramic Cap., 0.02μF ± 10% % J110 1 YP10001140 Plug C124 1 DK18203020 Ceramic Cap., 0.02μF ± 10% % J111 1 YP10001140 Plug C126 1 DK18203020 Ceramic Cap., 0.02μF ± 10% % J113 1 YP10001140 Plug C127 1 DD16200010 Ceramic Cap., 0.02μF ± 10% % J113 1 YP10001140 Plug C133 1 DK18203020 Ceramic Cap., 0		1		1	11			1	
C119					J102	1	YP10001140	riug	
C120		1	l .		11	1		1	
C120	C119	1	DK18403020	Ceramic Cap., 0.04μ F $\pm 10\%$	J105	1	YP10001140	Plug	
C121					J106	1	YP10001140	Plug	
C121	C120	1	DK18403020	Ceramic Cap., $0.04\mu F \pm {}^{100}\%$	J107	1	YP10001140	Plug	
C122		1			11		1	1. •	
1 DD16501010 Ceramic Cap., 500pF ± 10% J110 1 YP10001140 Plug		1			E 1			_	
C124				Ceramic Can 500nF + 10%	11	i i		_	
C125					11	1		_	
C126		1		Ceramic Cap., U.UZ#F ± 100%	11				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		i i		Ceramic Cap., 0.02μΕ ± 10%	[]			_	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	C126	1	DK18203020		J113	1	YP10001140	Plug	
C128 1 DK18203020 DEA10601690 Ceramic Cap., 0.02μF ± 100 % 16V J115 1 YP10001140 Plug C130 1 DK18203020 DK18203020 Ceramic Cap., 0.02μF ± 100 % J117 J 1 YP10001140 Plug C131 1 DK18203020 DK18203020 Ceramic Cap., 0.02μF ± 100 % J118 J YP10001140 Plug C132 1 DK18203020 DK18203020 Ceramic Cap., 0.04μF ± 100 % J120 J19001140 Plug J YP10001140 Plug C133 1 DD16101010 Ceramic Cap., 0.02μF ± 100 % J120 J19001140 Plug J YP10001140 Plug C134 1 DD16101010 DK18203020 Ceramic Cap., 0.02μF ± 100 % J121 J1 YP10001140 Plug Plug C135 1 DK18203020 Ceramic Cap., 0.02μF ± 100 % J122 J1 YP10001140 Plug J YP10001140 Plug C136 1 DK18203020 Ceramic Cap., 0.02μF ± 100 % J123 J1 YP10001140 Plug J YP10001140 Plug C137 1 DK18203020 Ceramic Cap., 0.02μF ± 100 % J124 J1 YP10001140 Plug J YP10001140 Plug C139 1 DK18403020 Ceramic Cap., 0.04μF ± 100 % J131 J1 YP10001140 Plug J YP10001140 Plug C140 1 EA10601690 Ceram	C127	1	DD16200010		J114	1 1	YP10001140	Plug	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1	DK18203020	Ceramic Cap., 0.02μ F $\pm \frac{100}{6}\%$	11			_	
C130 1 DK18203020 Ceramic Cap., 0.02μF ± 100 % J117 1 YP10001140 Plug C132 1 DK18203020 Ceramic Cap., 0.04μF ± 100 % J118 1 YP10001140 Plug C133 1 DK18203020 Ceramic Cap., 0.02μF ± 100 % J119 1 YP10001140 Plug C134 1 DD16101010 Ceramic Cap., 0.02μF ± 100 % J120 1 YP10001140 Plug C135 1 DK18203020 Ceramic Cap., 0.02μF ± 100 % J121 1 YP10001140 Plug C135 1 DK18203020 Ceramic Cap., 0.02μF ± 100 % J122 1 YP10001140 Plug C136 1 DK18203020 Ceramic Cap., 0.02μF ± 100 % J122 1 YP10001140 Plug C137 1 DK18203020 Ceramic Cap., 0.02μF ± 100 % J123 1 YP10001140 Plug C137 1 DK18203020 Ceramic Cap., 0.02μF ± 100 % J124 1 YP10001140 Plug C138 1 DK18203020 Ceramic Cap., 0.02μF ± 100 % J124 1 YP10001140 Plug C138 1 DK18203020 Ceramic Cap., 0.02μF ± 100 % J124 1 YP10001140 Plug C139 1 DK18203020 Ceramic Cap., 0.02μF ± 100 % J126 1 YP10001140 Plug C139 1 DK18203020 Ceramic Cap., 0.04μF ± 100 % J125 1 YP10001140 Plug C141 1 DD16201010 Ceramic Cap., 200pF ± 10% J131 1 YP10001140 Plug C141 1 DD16201010 Ceramic Cap., 200pF ± 10% J132 1 YP10001140 Plug C142 1 DD16201010 Ceramic Cap., 200pF ± 10% L101 1 LA12026120 Ant Coil Ceramic Cap., 200pF ± 10% L101 1 LA12026120 Ant Coil Ceramic Cap., 0.04μF ± 100 % L102 1 LA12026100 Ant Coil Ceramic Cap., 0.04μF ± 100 % L103 1 L012036010 Osc Coil C145 1 EA47601690 Electrolytic Cap., 47μF 16V L104 1 LC17510010 Choke Coil Li.F.T.					.1115	1	YP10001140	Plug	
C130		'			11	1		, -	
C131 1 DK18203020 Ceramic Cap., $0.02\mu F \pm \frac{100}{9}\%$ J118 1 YP10001140 Plug C132 1 DK18203020 Ceramic Cap., $0.02\mu F \pm \frac{100}{9}\%$ J120 1 YP10001140 Plug C133 1 DD16101010 Ceramic Cap., $0.02\mu F \pm \frac{100}{9}\%$ J120 1 YP10001140 Plug C135 1 DK18203020 Ceramic Cap., $0.02\mu F \pm \frac{100}{9}\%$ J121 1 YP10001140 Plug C135 1 DK18203020 Ceramic Cap., $0.02\mu F \pm \frac{100}{9}\%$ J122 1 YP10001140 Plug C136 1 DK18203020 Ceramic Cap., $0.02\mu F \pm \frac{100}{9}\%$ J123 1 YP10001140 Plug C137 1 DK18203020 Ceramic Cap., $0.02\mu F \pm \frac{100}{9}\%$ J124 1 YP10001140 Plug C138 1 DK18203020 Ceramic Cap., $0.02\mu F \pm \frac{100}{9}\%$ J125 1 YP10001140 Plug C139 1 DK18403020 Ceramic Cap., $0.02\mu F \pm \frac{100}{9}\%$ J125 1 YP10001140 Plug C140 1 EA10601690 Electrolytic Cap., $10\mu F = 16V$ J131 1 YP10001140 Plug C142 1 DD16201010 Ceramic Cap., $200p F \pm 10\%$ J132 1 YP10001140 Plug C142 1 DD16201010 Ceramic Cap., $200p F \pm 10\%$ J132 1 YP10001140 Plug C143 1 DD16101010 Ceramic Cap., $200p F \pm 10\%$ L101 1 LA12026120 Ant Coil C144 1 DK18403020 Ceramic Cap., $100\mu F \pm 10\%$ L102 1 LA12026100 Ant Coil C144 1 DK18403020 Ceramic Cap., $0.04\mu F \pm \frac{100}{9}\%$ L103 1 LO12036010 Osc Coil C145 1 EA47601690 Electrolytic Cap., $\frac{47\mu F}{16V}$ 16V L104 1 LC17510010 Choke Coil LF.T.	C120	1	DK19202020	Caramic Cap 0.02" = + 100 o/	4.1			, –	
C132			1	Commis Com 0.02μF ± 0%				, -	
C133				Ceramic Cap., 0.02μF ± 100 α	11				
C134 1 DD16101010 Ceramic Cap., $100pF \pm 10\%$		1		Ceramic Cap., 0.04μ F $\pm \frac{100}{9}\%$	11	1	t .	I =	
C135 1 DK18203020 Ceramic Cap., $0.02\mu F$ $\pm \frac{100}{0}\%$ J122 1 YP10001140 Plug C136 1 DK18203020 Ceramic Cap., $0.02\mu F$ $\pm \frac{100}{0}\%$ J123 1 YP10001140 Plug C137 1 DK18203020 Ceramic Cap., $0.02\mu F$ $\pm \frac{100}{0}\%$ J124 1 YP10001140 Plug C138 1 DK18203020 Ceramic Cap., $0.02\mu F$ $\pm \frac{100}{0}\%$ J125 1 YP10001140 Plug C139 1 DK18403020 Ceramic Cap., $0.04\mu F$ $\pm \frac{100}{0}\%$ J125 1 YP10001140 Plug C140 1 EA10601690 Electrolytic Cap., $10\mu F$ 16V J131 1 YP10001140 Plug C142 1 DD16201010 Ceramic Cap., $200pF$ $\pm 10\%$ J132 1 YP10001140 Plug C142 1 DD16201010 Ceramic Cap., $200pF$ $\pm 10\%$ J132 1 YP10001140 Plug C143 1 DD16201010 Ceramic Cap., $200pF$ $\pm 10\%$ L101 1 LA12026120 Ant Coil C143 1 DK18403020 Ceramic Cap., $100pF$ $\pm 10\%$ L102 1 LA12026100 Ant Coil C144 1 DK18403020 Ceramic Cap., $0.04\mu F$ $\pm \frac{100}{0}\%$ L103 1 LO12036010 Osc Coil C145 1 EA47601690 Electrolytic Cap., $\frac{47\mu F}{16}$ 16V L104 1 LC17510010 Choke Coil L106 1 EA10601690 Electrolytic Cap., $10\mu F$ 16V L105 1 LI10016010 I.F.T.	C133	1	DK18203020		J120	1	YP10001140	Plug	
C135 1 DK18203020 Ceramic Cap., $0.02\mu F$ $\pm \frac{100}{9}\%$ J122 1 YP10001140 Plug C137 1 DK18203020 Ceramic Cap., $0.02\mu F$ $\pm \frac{100}{9}\%$ J123 1 YP10001140 Plug C138 1 DK18203020 Ceramic Cap., $0.02\mu F$ $\pm \frac{100}{9}\%$ J124 1 YP10001140 Plug C139 1 DK18403020 Ceramic Cap., $0.02\mu F$ $\pm \frac{100}{9}\%$ J125 1 YP10001140 Plug C140 1 EA10601690 Electrolytic Cap., $10\mu F$ 16V J131 1 YP10001140 Plug C142 1 DD16201010 Ceramic Cap., $200pF$ $\pm 10\%$ J131 1 YP10001140 Plug C142 1 DD16201010 Ceramic Cap., $200pF$ $\pm 10\%$ J132 1 YP10001140 Plug C143 1 DD16201010 Ceramic Cap., $200pF$ $\pm 10\%$ L101 1 LA12026120 Ant Coil C143 1 DK18403020 Ceramic Cap., $100pF$ $\pm 10\%$ L102 1 LA12026100 Ant Coil C144 1 DK18403020 Ceramic Cap., $0.04\mu F$ $\pm \frac{100}{9}\%$ L103 1 LO12036010 Osc Coil C145 1 EA47601690 Electrolytic Cap., $\frac{47\mu F}{16}$ 16V L104 1 LC17510010 Choke Coil LF.T.	C134	1	DD16101010		J121	1	YP10001140	Plug	
C136 1 DK18203020 Ceramic Cap., $0.02\mu\text{F} \pm \frac{100}{100}\%$ J123 1 YP10001140 Plug C137 1 DK18203020 Ceramic Cap., $0.02\mu\text{F} \pm \frac{100}{100}\%$ J124 1 YP10001140 Plug C138 1 DK18203020 Ceramic Cap., $0.02\mu\text{F} \pm \frac{100}{100}\%$ J125 1 YP10001140 Plug C140 1 EA10601690 Electrolytic Cap., $10\mu\text{F}$ 16V J131 1 YP10001140 Plug C141 1 DD16201010 Ceramic Cap., $200\text{pF} \pm 10\%$ J131 1 YP10001140 Plug C142 1 DD16201010 Ceramic Cap., $200\text{pF} \pm 10\%$ J132 1 YP10001140 Plug C143 1 DD16101010 Ceramic Cap., $200\text{pF} \pm 10\%$ L101 1 LA12026120 Ant Coil C143 1 DK18403020 Ceramic Cap., $100\text{pF} \pm 10\%$ L102 1 LA12026100 Ant Coil C144 1 DK18403020 Ceramic Cap., $0.04\mu\text{F} \pm \frac{100}{100}\%$ L103 1 LO12036010 Osc Coil C145 1 EA47601690 Electrolytic Cap., $^447\mu\text{F}$ 16V L104 1 LC17510010 Choke Coil L1001 I.F.T.		1			11	1			
C137 1 DK18203020 Ceramic Cap., $0.02\mu F$ $\pm \frac{100}{9}\%$		f			11		1	_	
C138 1 DK18203020 Ceramic Cap., $0.02\mu\text{F}$ $\pm \frac{100}{0}\%$ C139 1 DK18403020 Ceramic Cap., $0.04\mu\text{F}$ $\pm \frac{100}{0}\%$ C140 1 EA10601690 Electrolytic Cap., $10\mu\text{F}$ 16V J131 1 YP10001140 Plug C141 1 DD16201010 Ceramic Cap., 200pF $\pm 10\%$ J132 1 YP10001140 Plug C142 1 DD16201010 Ceramic Cap., 200pF $\pm 10\%$ L101 1 LA12026120 Ant Coil C143 1 DD16101010 Ceramic Cap., 100pF $\pm 10\%$ L102 1 LA12026100 Ant Coil C144 1 DK18403020 Ceramic Cap., $0.04\mu\text{F}$ $\pm \frac{100}{0}\%$ L103 1 LO12036010 Osc Coil C145 1 EA47601690 Electrolytic Cap., $47\mu\text{F}$ 16V L104 1 LC17510010 Choke Coil C146 1 EA10601690 Electrolytic Cap., $10\mu\text{F}$ 16V L105 1 LI10016010 I.F.T.		1	U. T.		11	1		_	
C139 1 DK18403020 Ceramic Cap., $0.04\mu\text{F}$ $\pm \frac{100}{9}\%$ J125 1 YP10001140 Plug 126 1 YP10001140 Plug 127 127 1 DD16201010 Ceramic Cap., 200F $\pm 10\%$ J131 1 YP10001140 Plug 131 1 YP10001140 Plug 131 1 PP10001140		- 1	1		3124	1 '	17 10001140	, rug	
C140 1 EA10601690 Electrolytic Cap., $10\mu\text{F}$ 16V J131 1 YP10001140 Plug C141 1 DD16201010 Ceramic Cap., 200pF \pm 10% J132 1 YP10001140 Plug C142 1 DD16201010 Ceramic Cap., 200pF \pm 10% L101 1 LA12026120 Ant Coil C143 1 DD16101010 Ceramic Cap., 100pF \pm 10% L102 1 LA12026100 Ant Coil C144 1 DK18403020 Ceramic Cap., $0.04\mu\text{F}$ \pm 10% L103 1 LO12036010 Osc Coil C145 1 EA47601690 Electrolytic Cap., $^*47\mu\text{F}$ 16V L104 1 LC17510010 Choke Coil C146 1 EA10601690 Electrolytic Cap., $10\mu\text{F}$ 16V L105 1 LI10016010 I.F.T.					11	1 .	VD4000	D1	
C140 1 EA10601690 Electrolytic Cap., 10μ F 16V J131 1 YP10001140 Plug C141 1 DD16201010 Ceramic Cap., 200 pF ± 10% J132 1 YP10001140 Plug C142 1 DD16201010 Ceramic Cap., 200 pF ± 10% L101 1 LA12026120 Ant Coil C143 1 DD16101010 Ceramic Cap., 100 pF ± 10% L102 1 LA12026100 Ant Coil C144 1 DK18403020 Ceramic Cap., 0.04 μF ± 10% L103 1 LO12036010 Osc Coil C145 1 EA47601690 Electrolytic Cap., 44 μF 16V L104 1 LC17510010 Choke Coil C146 1 EA10601690 Electrolytic Cap., 10 μF 16V L105 1 LI10016010 I.F.T.	C139	1	UK 18403020	Ueramic Cap., U.U4μF ± 10% %	11	t .	l .	-	
C141 1 DD16201010 Ceramic Cap., 200pF \pm 10% J132 1 YP10001140 Plug C142 1 DD16201010 Ceramic Cap., 200pF \pm 10% L101 1 LA12026120 Ant Coil C143 1 DD16101010 Ceramic Cap., 100pF \pm 10% L102 1 LA12026100 Ant Coil C144 1 DK18403020 Ceramic Cap., 0.04 μ F \pm 10% L103 1 LO12036010 Osc Coil C145 1 EA47601690 Electrolytic Cap., "47 μ F 16V L104 1 LC17510010 Choke Coil C146 1 EA10601690 Electrolytic Cap., 10 μ F 16V L105 1 LI10016010 I.F.T.					J126	1	YP10001140	Plug	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	C140	1	EA10601690	Electrolytic Cap., 10μF 16V	J131	1	YP10001140	Plug	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	C141	1	DD16201010	Ceramic Cap., 200pF ± 10%	11	1	1	_	
C143 1 DD16101010 Ceramic Cap., $100pF \pm 10\%$ L102 1 LA12026100 Ant Coil C144 1 DK18403020 Ceramic Cap., $0.04\mu F \pm {}^{100}\%$ L103 1 LO12036010 Osc Coil C145 1 EA47601690 Electrolytic Cap., ${}^{4}7\mu F$ 16V L104 1 LC17510010 Choke Coil C146 1 EA10601690 Electrolytic Cap., ${}^{1}0\mu F$ 16V L105 1 LI10016010 I.F.T.		1		1 .	11				
C144 1 DK18403020 Ceramic Cap., $0.04\mu\text{F}$ $\pm {}^{100}\%$ L103 1 LO12036010 Osc Coil C145 1 EA47601690 Electrolytic Cap., ${}^{4}7\mu\text{F}$ 16V L104 1 LC17510010 Choke Coil C146 1 EA10601690 Electrolytic Cap., ${}^{1}0\mu\text{F}$ 16V L105 1 LI10016010 I.F.T.		1	1		11			l .	
C145 1 EA47601690 Electrolytic Cap., 47μF 16V L104 1 LC17510010 Choke Coil C146 1 EA10601690 Electrolytic Cap., 10μF 16V L105 1 L110016010 I.F.T.		1			1.4				
C146 1 EA10601690 Electrolytic Cap., 10μF 16V L105 1 L110016010 I.F.T.					11	1	l .		
		1			11		1		
C147 1 DK18403020 Ceramic Cap., 0.04μF ± 108% L106 1 L114016230 I.F.T.	C146	1	EA10601690		L105	1	LI10016010	I.F.T.	
	C147	1.	DK18403020) Ceramic Cap., 0.04μF ± 10%%	L106	1	LI14016230	I.F.T.	
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REF. DESIG.	Q'TY N	PART NO.		DESCRIPTION		REF. DESIG.	Q'TY N	PART NO.	DESCRIPTION
						5466		D.T.O.E.O.O.A.4.0	20KO +50/ 1/W
L107	1	LI10156020	I.F.T.	40040 ±50/ 1/1/]]	R160	1	RT05223140	Resistor 22KΩ ±5% ¼W
R101	1	RT05104140	Resistor	100KΩ ±5% ¼V		R161	1	RA01040180	Trimming Resistor 100KΩ (B)
R102	1	RT05105140	Resistor	1MΩ ±5% ¼V	11	R162	1	RT05223140	Resistor 22KΩ ±5% ¼W
R103	1	RT05563140	Resistor	56KΩ ±5% ¼V		R163	1	RT05332140	Resistor 3.3K Ω ±5% ½W
R104	1	RT05101140	Resistor	100Ω ±5% ¼V	- 11	R164	1	RT05101140	Resistor $100\Omega \pm 5\% $
R105	1	RT05105140	Resistor	1MΩ ±5% ¼V		R165	1	RT05101140	Resistor $100\Omega \pm 5\%$ ¼W
R106	1	RT05222140	Resistor	2.2KΩ ±5% ¼V		R166	1	RT05102140	Resistor $1K\Omega \pm 5\% $
R107	1	RT05101140	Resistor	100Ω ±5% %V	11	R167	1	RT05101140	Resistor $100\Omega \pm 5\% $
R108	1	RT05822140	Resistor	8.2KΩ ±5% ¼V	11	R168	1	RT05101140	Resistor $100\Omega \pm 5\% $
R109	1	RT05102140	Resistor	1KΩ ±5% ¼V	w	R169	1	RT05223140	Resistor 22KΩ ±5% ¼W
R110	1	RT05103140	Resistor	10KΩ ±5% ¼V		R170	1	RC00000120	Resistor 0Ω
R111	1	RT05101140	Resistor	100Ω ±5% ¼\	- 11	R171	1	RT05273140	Resistor 27KΩ ±5% ¼W
R112	1	RT05101140	Resistor	100Ω ±5% ¼\	w	R172	1	GD05103140	Resistor $10K\Omega \pm 5\% \%W$
R113	1	RT05151140	Resistor	150Ω ±5% ¼\	w	C202	1	DF65351010	Film Cap., 350pF ±5%
R114	1	RT05332140	Resistor	3.3KΩ ±5% ¼\	w	C203	1	DD15200010	Ceramic Cap., 20pF ±5%
R115	1	RT05151140	Resistor	150Ω ±5% ¼\	w	C204	1	DF17103010	Film Cap., 0.01μF ±20%
R116	1	RT05123140	Resistor	12KΩ ±5% ¼\	w	C205	1	DF17103010	Film Cap., 0.01μF ±20%
R117	1	RT05182140	Resistor	1.8KΩ ±5% ¼\	w II	C206	1	DF17103010	Film Cap., 0.01μF ±20%
R118	1	RT05271140	Resistor	270Ω ±5% ¼\	w II	C207	1	EA10505090	Elect Cap., 1µF 50V
R119	1	RT05152140	Resistor	1.5KΩ ±5% ¼\	w	C208	1	EA47503590	Elect Cap., 4.7µF 35V
R120	1	RT05273140	Resistor	27KΩ ±5% ¼\	w	C209	1	EA33505090	Elect Cap., 3.3μF 50V
R121	1 1	RT05103140	Resistor	10KΩ ±5% 1/41	11	C210	1	DK17102010	Ceramic Cap., 1000pF ±20%
R122	1	RT05511140	Resistor	510Ω ±5% ¼\	- 11	C211	1	DF16822010	Film Cap., 8200pF ±10%
R123	1	RT05333140	1	33KΩ ±5% 1/4		C212	1	DF17103010	Film Cap., 0.01μF ±20%
R124	li	RT05102140	Resistor	1KΩ ±5% ¼\	11	C213	i	EA10701690	Elect Cap., 100μF 16V
R125	i	RT05151140		150Ω ±5% ¼\		C214	li	DK18403020	
R126	1	RT05471140		470Ω ±5% ¼1	11	C215	1	EV22403560	Elect Cap., 0.22µF 35V
R127	1	RT05562140	Resistor	5.6KΩ ±5% ¼\		C216	1 i	EA10701690	Elect Cap., 100µF 16V
R128	1	RT05152140	Resistor		w	C217	1	DK18403020	Ceramic Cap., 0.04µF
R129	1	RT05561140	Resistor		W	C218	i	DK17103010	Ceramic Cap., 0.01µF ±20%
R130 R131	1 1	RT05561140 RT05152140	Resistor Resistor		w	C219 H201	1 1	DD15250020 HC10003010	
R132	1	RT05151140	1		w	L202	1	LO10010490	
R133	1	RT05131140			w	L202	1	LI10280030	I.F.T.
	1	RT05123140	l .		w	L203	i	LI10200030	I.F.T.
R134	1	RT05123140	Į.		w	L206	∣i	LC21050010	Choke Coil
					w	R202	l i	RT05562140	Resistor 5.6KΩ ±5% ¼W
R136	1	RT05331140	l .		w	R204	1	RA01030250	
R137		RT05151140			1	R205	1	RT05124140	Resistor 120KΩ ±5% ¼W
R138	1 1	RT05151140 RT05104140			W W	R206	1	RT05821140	Resistor $820\Omega \pm 5\%$ %W
D440		DT05153140	Danistan	15ΚΩ ±5% ¼	w	R207	1	RT05104140	Resistor 100KΩ ±5% ¼W
R140		RT05153140					1	1	1
R141		RT05682140	1		4W	R208	1	RT05103140	
R142	- 1	RT05821140			4W	R209	1	RT05301140	
R143		RT05221140	1		4W	R210	1	RT05103140	I
R144	}	RT05821140	*		4W	R211	1	RT05272140	1
R145		RT05821140	1		4W	R212	1	RT05101140	
R146	1	RT05103140			4W	R213	1	RT05151140	
R147		RT05103140			4W	R214	1	RT05432140	
R148	1	RT05101140	T .		4W	R215	1	RT05334140	
R149	1	RT05183140	Resistor	18KΩ ±5% ¼	4W	R216	1	RT05473140	Resistor 47K Ω ±5% ¼W
R150	1	RT05332140			4W	C301	1	EA10601690	1
R151	1	RT05332140			4W	C302	1	DF16222010	
R152	! 1	RT05273140	Resistor		4W	C303	1	DF55471010	
R153	1	RT05101140	Resistor		4W	C304	1	EQ22405010	
R154		RT05100140			4W	C305	1	EQ47405010	Electrolytic Cap., 0.47μF 50V
R155	1	RT05822140	i i		4W	C306	1	EQ22405010	
R156		RT05153140	I		4W	C307	1 1	DF17473010	
R157	- 1	RT05102140	I		4W	C310	1	EA22701690	
R158		RT05101140			4W	C311	1	DF16392010	
R159		RT05273140	1		4W	C312	i	DF16392010	1
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REF.	Q'TY	0.07.10	DECORIDE	ION	REF.	Ω ΈΥ	PART NO.	DESCRIP		ndinavia
DESIG.	N	PART NO.	DESCRIPTI	ON	DESIG.	N	FART NO.	DESCRI	11014	
		:								
C313	1	DF15332010		5%	5.00		VD00504040	P400 EQL. AMP BOAF	RD.	
C314	1	DF15332010		5%	P400	1	YD29561040	P.W. Board		
C315	1	DF16332010	+ -4-14	10%	.]	1	ZZ29561040	P.W. Board Assembly		ŀ
C316	1	DF16332010		10%	D400	1	2022119020	Cnaar		
C317	1	DD15361010		5% 5%	P408	1	2933118020	Spacer Resistor $1K\Omega$	±5%	1/4W
C318	1	DD15361010		5% -5%	R401 R402	1	RT05102140 RT05102140	Resistor $1K\Omega$ Resistor $1K\Omega$	±5%	14W
C319	1	DF55821010	· · · · · · · · · · · · · · · · · · ·	5% 5%	R403	1	RT05102140	Resistor 510Ω	±5%	14W
C320	1	DF55821010		-5% :5%	R404	1	RT05511140	Resistor 510Ω	±5%	14W
C321	1	DF15472010		.5% :5%	R405	1	RT05623140	Resistor 62KΩ	±5%	14W
C322	1	DF15472010	Film Cap., 4700pF \pm	-576	R406	1	RT05623140	Resistor 62KΩ	±5%	14W
C323	1	EV47403560	Electrolytic Cap., 0.04	7µF 35V	R407	1	RN05274140	Resistor 270KΩ	±5%	1/4W
C324	1 1	EV47403560		•	R408	i	RN05274140	Resistor 270KΩ	±5%	1/4W
C325	1 1	EV47403560	ll		R409	1	RN05184140	Resistor 180KΩ	±5%	1/4W
C326	l i	EV47403560	I							
H301	l i	HC10009060	-	.,	R410	1	RN05184140	Resistor 180KΩ	±5%	1/4W
H302	l i	HT105641B0		B)	R411	1	RN05274140	Resistor 270KΩ	±5%	1/4W
H303	1	HT308281C0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C)	R412	1	RN05274140	Resistor 270K Ω	±5%	1/4W
H304	li	HT308281C0		c)	R413	1	RT05223140	Resistor $22K\Omega$	±5%	14W
H305	1	HT308281C0	1	C)	R414	1	RT05223140	Resistor 22K Ω	±5%	14W
H306	1	HT105641B0		B)	R415	1	RT05681140	Resistor 680Ω	±5%	14W
1,000	'	111 1000 1120		_,	R416	1	RT05681140	Resistor 680Ω	±5%	14W
H307	1	HT105641B0	Transistor 2SA564 (B)	R417	1	RT05473140	Resistor 47K Ω	±5%	14W
L301	1 1	LC22260040	1		R418	1	RT05473140	Resistor 47K Ω	±5%	14W
L302	1	LC22260040			R419	1	RT05223140	Resistor 22K Ω	±5%	14W
L303	1	LC24760010			11					
L304	1	LC24760010			R420	1	RT05223140	Resistor 22KΩ	±5%	14W
R301	1	RA01030250		B)	R421	1	RT05221140	Resistor 220Ω	±5%	1/4W
R302	1	RA04720050	_		R422	1	RT05184140	Resistor 180KΩ	±5%	14W
R303	1	RT05163140	, -	±5% ¼W	C401	1	EV33502560	Electrolytic Cap.,	3.3µF	25V
R304	1	RT05102140		±5% ¼W	C402	1	EV33502560	Electrolytic Cap.,	3.3µF	25V
R305	1	RT05102140	Resistor 1KΩ	±5% ¼W	C403	1	DD16101010	Ceramic Cap., 100pF	±10%	
					C404	1	DD16101010	Ceramic Cap., 100pF	±10%	
R307	1	RT05120140	Resistor 12KΩ	±5% ¼W	C405	1	EA10701090		100µF	10V
R308	1	RT05224140		±5% ¼W	C406	1	EA10701090		100µF	10∨
R309	1	RT05224140	Resistor 220KΩ	±5% ¼W	C407	1	DK17102010	Ceramic Cap.,0.001µF	±20%	İ
R310	1	RT05224140	Resistor 220KΩ	±5% ¼W	11			ļ		
R311	1	RT05392140	Resistor 3.9KΩ	±5% ¼W	C408	1	DK17102010	Ceramic Cap.,0.001µF		
R312	1	RT05392140	0.51425	±5% ¼W	C409	1	DF15123010	Film Cap., 0.012μF		
R313	1	RT05562140	3,01400	±5% %W	C410	1	DF15123010	Film Cap., 0.012μF		
R314	1	RT05562140	3.01742	±5% ¼W	C411	1	DF15332010	Film Cap., 0.003μF		
R315	1	RT05224140	220114	±5% ¼W	C412	1	DF15332010	Film Cap., 0.003μF		
R316	1	RT05224140	Resistor 220KΩ	±5% ¼W	C413	1	EE10505040	Electrolytic Cap.,	1μF	50V
	1		1	1-0. 4/11	C415	1	EE10505040	Electrolytic Cap.,	1μF	50V
R317	1	RT05105140		±5% ¼W	C416	1	EE10505040	Electrolytic Cap.,	1μF	50V
R318	1	RT05105140		±5% ¼W	C417	1	EA10703590		00μF	35V
R319		RT05563140		±5% ¼W	H401	1	HC10011050	IC TA7129	_	
R320	1	RT05563140		±5% ¼W	11400	1 .	U010011050	IC TA7400	ь	
R321	1	RT05222140	1	±5% ¼W	H402	1	HC10011050		г	
R322	I	RT05222140		±5% 1/W	J401	1	YP10001130	Plug		
R323		RT05622140		±5% ¼W	J402	1	YP10001130	Plug		
R324		RT05622140		±5% ¼W ±5% ¼W	J404	5	YP10001130	Plug		
R325		RT05224140			11 1400	5	1710001130	Plug		
R326	1	RT05224140	Resistor 220KΩ	±5% ¼W	J408	1				
D207		DE05150140	Resistor 1.5KΩ	±5% ¼W	[]			P700 MAIN AMP. BO	A Ph	
R327	1	RT05152140	- 1	±5% ¼W	P700	1	YD29561010		~!!D	
R328		RT05272140	-	±5% ¼W	1700	1	ZZ29561010			
R329		RC00000120		±5% ¼W		'	222301010			
R330	1	RT05152140		±5% ¼W	P708	16	2933118020	Spacer		
R331	'	n 109192141	1.3/4	/U /4¥¥	C701	1	EV10502560	1 '	1μF	25V
					C701	1	EV10502560		1μF	25V
					C702	1	EA47605090		1μ1 47μF	50V
					C704	1	EA47605090		47μF	50V
					C705	1	EE10703550		00μF	35V
					5,55	'			,,	
		1					-			
					11					
			· · · · · · · · · · · · · · · · · · ·							

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REF. DESIG.	Q'TY N	PART NO.	DESCRI	PTION		REF. DESIG.	Q'TY N	PART NO.	DESCRIPTION
C706	1	EE10703550	Electrolytic Cap.,	100μF	35V	R725	1	RT05362140	Resistor 3.6KΩ ±5% ¼W
C707	1	EA10703590	Electrolytic Cap.,	100μF	35V	R726	1	RT05362140	Resistor 3.6K Ω ±5% ¼W
C707	1	EA10703590		100μ1 100μF	35V	R727		RA01020210	Trimming Resistor, $1K\Omega$ (B)
C709	1	EA10701090		100μF	10V	R728	1	RA01020210	Trimming Resistor, $1K\Omega$ (B)
C710	i	EA10701090		100μF	10V	R729	1	RT05100140	Resistor $10\Omega \pm 5\%$ ¼W
C710	1 1	DD16100010		F ±10%	100	R730	1	RT05100140	Resistor $10\Omega \pm 5\%$ ¼W
C712	1	DD16100010		oF ±10%		R731	1	GF05471140	Resistor 470Ω ±5% ¼W
1	1					l l	1		
C713	1 '	DD16500010		oF ±10%		R732	1	GF05471140	Resistor 470Ω ±5% ¼W Resistor 10Ω ±5% ¼W
C714 C715	1	DD16500010 DD16151010		oF ±10% oF ±10%		R733 R734	1	GF05100140 GF05100140	Resistor $10\Omega \pm 5\%$ ¼WResistor $10\Omega \pm 5\%$ ¼W
C716	1	DD16151010	Ceramic Cap., 150p	oF ±10%		R735	1	GK05472020	Resistor 0.47Ω ±5% 2W
C717	1	DD16101010				R736	1	GK05472020	Resistor $0.47\Omega \pm 5\%$ 2W
C718	1	DD16101010	Ceramic Cap., 100	oF ±10%		R737	1	GK05472020	Resistor $0.47\Omega \pm 5\%$ 2W
C719	1	DF16104050		ιF ±10%		R738	1	GK05472020	
C720	1	DF16104050		ιF ±10%		R739	1	RC10100120	Resistor 10Ω ±10% ½W
C721	1	EB22803550		2200µF	35V	R740	1	RC10100120	Resistor 10Ω ±10% ½W
C722	1	EB22803550		2200μF	35V	R741	1	RC10022120	Resistor 2.2Ω ±10% ½W
C723	1	EA10510090		1μF		R742	1	RC10022120	
C724	1	EA10510090	Electrolytic Cap.,	1μF		R743	1	RT05103140	Resistor 10KΩ ±5% ¼W
H701	i	HT105641K0	, , ,	•	(K)	R744	1	RT05103140	Resistor 10KΩ ±5% ¼W
H702	1	HT105641K0	Transistor 2SA56	64	(K)	R745	1	GF05821120	Resistor 820Ω ±5% ½W
H703	1	HT313842C0	Transistor 2SC13	84	(R, S)	R746	1	GF05821120	Resistor 820Ω ±5% ½W
H704	1	HT313842C0	Transistor 2SC13	84	(R, S)	R747	1	RC00000120	Resistor Jamper
H705	1	HT308281D0	Transistor 2SC82	28	(D)	R748	1	RC00000120	Resistor Jamper
H706	1	HT308281D0	Transistor 2SC82	18	(D)	R749	1	RC00000120	Resistor Jamper
J701	1	YP10001130	Plug			R750	1	RC00000120	Resistor Jamper
J702	1	YP10001130	Plug			R751	1	RC00000120	
J703	1	YP10001130	Plug			R752	1	RC00000120	Resistor Jamper
J704	1	YP10001130	Plug				~	1	•
J705	1	YP10001130	Plug			H			P800 POWER SUPPLY BOARD
1	'		1			P800	1	YD29561030	
J706	1	YP10001130	Plug				1	ZZ29561030	P.W. Board Assembly
J707	1	YP10001130	Plug			li	1 .		
L701	1	LC22720010	Choke Coil			P808	14	2933118020	Spacer, R802, R807, H806, H808
L702	1	LC22720010	Choke Coil			P809	10	2933118010	Spacer, R801, R802~H805
M701	1	IN10060390	Lamp			C801	1	DK18103510	1 1
M702	i	IN10060390	Lamp			C802	i	DK18103510	
R701	li	RT05104140	Resistor 100K	Ω ±5%	14W	C803	li	EB33805520	Electrolytic Cap., 3300µF 55V
R702	i	RT05104140	Resistor 100K		1/4W	C804	l i	EA47705090	
R703	i	RT05102140	Resistor 1K		1/4W	C805	1	EA33703590	1
R704	1	RT05102140	1		%W	C806	1	EA22701690	1
H 704	1	K 105102140	Resistor 1K	Ω ±5%	74 V V	C807		EA10705090	
D705	١.,	DT05004140	Danista 0001	0 +EW	1/14/	11	1		
R705	1	RT05204140	Resistor 200K	Ω ±5%	1/4W	C808	1	EA47705090	Electrolytic Cap., 470µF 50V
R706	1	RT05204140		Ω ±5%	1/W	0000		DK10402040	Coromia Con 0.04::E
R707	1	RT05393140		Ω ±5%	1/W	C809	1	DK18403010	1
R708	1	RT05393140	Resistor 39K	Ω ±5%	1/4W	C810	1	EA47701690	
R709	1	RT05154140		Ω ±5%	1/W	H801	1	HT314072B0	
R710	1 1	RT05154140	l .		1/4W	H802	1	HD20009010	1
R711	1	RT05562140			1/4W	H803	1	HD20009010	
R712	1	RT05562140			14W	H804	1	HD20009010	
R713	1	RT05391140	•)Ω ±5%	14W	H805	1	HD20009010	
R714	1	RT05391140	Resistor 390)Ω ±5%	14W	H806	1	HD20005010	
						H807	1	HD20005010	
R715	1	RT05101140	Resistor 100)Ω ±5%	14W	H808	1	HD20005010	Diode W06B
R716		RT05101140)Ω ±5%	1/4W	11	1		
R717		RT05272140		Ω ±5%	14W	H809	1	HD30027090	Zener WZ140
R718	1	RT05272140	li .		1/4W	J801	1	YP10001130	
R719		RT05391140)Ω ±5%	1/4W	J802	1	YP10001130	
R720		RT05391140		Ω ±5%	1/4W	J803	1	YP10001130	
R721		RT05682140			14W	J804	i	YP10001130	1 -
		RT05682140			14W	J805	1	YP10001130	_
R722		1			%W	J805		YP10001130	, -
R723		RT05822140				(1	1	· ·	1 -
R724	1	RT05822140	Resistor 8.2k	(Ω ±5%	14W	J807	1	YP10001130	Plug
						11			
L		1	1						

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REF. DESIG.	Q'TY N	PART NO.	DESCRIPTION		REF. DESIG.	Q'TY N	PART NO.	DESCRIPT	ION		
							5405440	D :	+=0/	1/14/	
J808	1	YP10001130	Plug	ì	RE09	1	RN05105140	Resistor $1MΩ$ Resistor $1MΩ$	±5% ±5%	14W 14W	
J809	1 1	YP10001130	Plug	1	RE10	1 1	RN05105140 RT05683140	Resistor $68K\Omega$	±5%	1/4W	
J810	1 1	YP10001130	Plug	İ	RE11 RE12	1	RT05683140	Resistor 68KΩ	±5%	1/4W	
J811	1	YP10001130	Plug		RE13	1	RT05083140	Resistor $1K\Omega$		1/4W	
J812	1	YP10001130	Plug		RE14	1	RT05102140	Resistor 1KΩ		1/4W	
J813	1 1	YP10001130	Plug	1	RE15	1	RT05752140	Resistor 7.5KΩ	±5%	1/4W	
J814	1	YP10001130 YP10001130	Plug Plug		RE16	1	RT05752140	Resistor 7.5KΩ	±5%	1/4W	
J815	1	YP10001130	Plug		RE17	1	RT05102140	Resistor 1KΩ	±5%	1/4W	
J816 R801	1	GJ05331030	1 -	3W	RE18	1	RT05102140	Resistor 1KΩ	±5%	1/4W	
R802	1	GJ05221020	Resistor 220Ω ±5%	2W	RE19	1	RT05224140	Resistor 220KΩ	±5%	14W	
R803	1	GF05560120		½₩	RE20	1	RT05224140	Resistor 220KΩ	±5%	1/4W	
R804	1	RT05183140	Resistor 18KΩ ±5%	1/4W	RE21	1	RT05223140	Resistor 22K Ω	±5%	14W	
R805	1	RT05104140	Resistor 100KΩ ±5%	¼W	RE22	1	RT05223140	Resistor 22KΩ	±5%	14W	
R806	1	GF05100120	Resistor 10Ω ±5%	½W	RE23	1	RT05203140	Resistor 20KΩ		1/4W	
R807	1	GF05330120	Resistor 33 Ω ±5%	½W	RE24	1	RT05203140	Resistor 20KΩ		1/4W	
					RE25	1	RT05273140	Resistor 27KΩ	±5%	1/4W	
			PE01 TONE AMP. BOARD		RE26	1	RT05273140	Resistor 27KΩ		%W %W	
PE01	1 1	YD29561020 ZZ29561020	P.W. Board P.W. Board Assembly		RE27 RE28	1 1	RT05682140 RT05682140	Resistor 6.8K Ω Resistor 6.8K Ω	±5% ±5%	14W	
5500						1	DT05000140	Resistor 8.2KΩ	±5%	14W	
PE08	2	2933118020	Spacer, RE45		RE29 RE30	1 1	RT05822140 RT05822140	Resistor 8.2KΩ	±5%	14W	
CE01	1	DF17224050	Film Cap., $0.22\mu F \pm 20\%$ Film Cap., $0.22\mu F \pm 20\%$		RE31	1	RT05022140	Resistor 12KΩ		1/4W	
CE02	1 1	DF17224050		50V	RE32	1	RT05123140	Resistor 12KΩ		1/4W	
CE03		EE10505010 EE10505010	and the state of t	50V 50V	RE33	1	RM01040050	l	00K	(B)	
CE05	1	DF16223050	Film Cap., 0.022µF ±10%	50 V	RE34	li	RM01040050	1	00K	(B)	
CE06	1	DF16223050	Film Cap., 0.022µF ±10%		RE35	1	RT05225140	Resistor 2.2MΩ		14W	
CE07	1	DF16223050	Film Cap., 0.022µF ±10%		RE36	li	RT05225140	Resistor 2.2M Ω		1/4W	
CE08	1	DF16223050	Film Cap., 0.022µF ±10%		RE37	i	RT05683140	Resistor 68KΩ		1/4W	
CE09	1	DF16102050	Film Cap., 1000pF ±10%		RE38	1	RT05683140	Resistor 68KΩ	_	1⁄4W	
CE10	1	DF16102050	Film Cap., 1000pF ±10%		RE39	1	RT05103140	Resistor 10KΩ		14W	
CE11	1	EE10505010	Electrolytic Cap., 1µF	50V	RE40	1	RT05103140	Resistor 10KΩ		1/4W	
CE12	1	EE10505010	1	50V	RE41	1	RT05101140	I a contract to the contract t		1/4W	
CE13	1	EE47502510		25V	RE42	1	RT05101140			1/4W	
CE14	1	EE47502510		25V	RE43	1	RT05104140	1		1/4W	
CE15	1	EQ47501610	1 - 1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16V NP		1	RT05104140			1/4W	
CE16	1	EQ47501610		16V NP	RE45	1	RT05101140	Resistor 100Ω	±5%	14W	
CE17	1	EA10705090	and the capit	50V				DUOL MUTING HIE	11 TED		
HE01	1	HT313282A0	i	(S, T) (S, T)				PH01 MUTING, HI F BOARD	ILIEN		
1					PH01	1	YD29561060	P.W. Board			
HE03	1	HT107223A0	Transistor 2SA722	(S, T, U))	1	ZZ29561060	P.W. Board Assembly			
HE04	1	HT107223A0	Transistor 2SA722	(S, T, U)						
HE05	1	HT313281T0		(T)	CH01	1	DF16682050	1			
HE06	1	HT313281T0	1	(T)	CH02	1	DF16682050		±10%)	
JE01	1	YP10001130			JH01	1	YP10001130	•			
JE02	1	YP10001130			JH02	1	YP10001130	1 -			
JE03	1	YP10001130	i .		JH03	1	YP10001130	1 -			
JE04	1	YP10001130	_		JH04	1	YP10001130	_			
JE05	1	YP10001130	l .		JH05	1	YP10001130	_			
JE06	1	YP10001130	Plug		JH06	1	YP10001130	1 -			
IEOZ	1	VD40004400	Plug		JH07 RH01	1 1	YP10001130 RT05472140		±5%	14W	
JE07 JE08	1	YP10001130 YP10001130			"""	'	111004/2140	7.//2/	. –3/6	/~ V V	
JE08		YP10001130	-		RH02	1	RT05472140	Resistor 4.7KΩ	±5%	1/4W	
JE10	1	YP10001130			RH03	1	RT05225140		±5%	1/4W	
RE01	l l	RT05472140		¼W	RH04	- 1	RT05225140	ł .	2 ±5%	1/4W	
RE02		RT05472140	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14W	SH01	i	SP02020080	1		••	
RE03		RT05474140		14W		'		1			
RE04	t t	RT05474140		1/4W							
RE05		RT05102140		1/4W							
RE06		RT05102140		1/4W							
RE07	1	RT05223140	Resistor 22KΩ ±5%	1/4W							
RE08		RT05223140	· · · · · · · · · · · · · · · · ·	14W							
I ILEVO	' '	N 1 00222140	2.2132					*			
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REF. DESIG.	Q'TY N	PART NO.	DESCRIPTION	REF. DESIG.	Q'TY N	PART NO.	DESCTIPTION
			PT01 LOUDNESS, MONITOR	JR08	1	YP10001130	Plug
			BOARD	JR09	1	YP10001130	Plug
PT01	1	YD29561050	P.W. Board	JR10	1	YP10001130	Plug
	1 1	ZZ29561050	P.W. Board Assmbly	JR11	1	YP10001130	Plug
	'		,	JR12	1	YP10001130	Plug
CT01	1	DF16273050	Film Cap., 0.027µF ±10%	C001	1		Ceramic Cap., 0.01µF ±20%
CT02	1	DF16273050	Film Cap., 0.027μF ±10%	C002	1	DK17103010	Ceramic Cap., 0.01µF ±20%
CT02	1	DD16121010	Ceramic Cap., 120pF ±10%	C004	1	EA47601090	Electrolytic Cap., 47µF 10V
CT04	1	DD16121010		C006	1	DK18403020	
JT01		YP10001130		F001	1	FS10160800	Fuse, 1.6A 250V SEMKO
1	1	YP10001130	1 -				
JT02	1	YP10001130	1	F003	1	FS10250800	Fuse, 2.5A 250V SEMKO
JT03	1		1 -	F004	1	FS10250800	Fuse, 2.5A 250V SEMKO
JT04	1	YP10001130	L .	F005	1	FS10315800	· ·
JT05	1	YP10001130	· -	J001	1	YT01040150	1 '
JT06	1	YP10001130	Plug	J002	1	YL01020030	
				J003	i	YT02010090	1
JT07	1	YP10001130	I to the state of	J004	1	YT02040080	1
JT08	1	YP10001130	1 =	J005	1	YT02040080	
JT09	1	YP10001130		J005	;	YT01010050	
JT10	1	YP10001130	Plug	11	1	1	Jack
JT11	1	YP10001130		J007	1	YJ01000980	Jack
RT01	1	RT05153140	Resistor 15KΩ ±5% ¼W	1	1	VT02040060	Towning
RT02	1	RT05153140	Resistor 15KΩ ±5% ¼W	J008	1	YT03040060	1
RT03	1	RT05683140	Resistor 68KΩ ±5% ¼W	J009	1	YT03040060	
RT04	1	RT05683140	Resistor 68KΩ ±5% ¼W	J010	1	YJ08000190	Jack
RT05	1	RC00000120	Resistor 0Ω	J012	1	YJ08000220	Jack
				J013	1	BY03110010	1 -
RT06	1	RC00000120	Resistor 0Ω	J014	1	YP04000560	1 -
ST01	1	SP02020080	Push Switch	J015	1	YT01010050	1
1 0.0.		0. 0202000		J017	1	YJ08000090	;
- [İ		PZ01 DIAL LAMP BOARD	J018	1	YJ08000090	Jack
PZ01	1	YD28860160		J019	1	YJ08000090	Jack
1201	l i	ZZ28891160		11			
	1 '	2220031100	1 .vv. Board / total mary	L001	1	LC11540040	Choke Coil
1701	1	YJ08000170	Jack	L002	1	LF11200480	Ant Coil
JZ01	1	1		L003	1	LS18603030	Power Transistor,
JZ02	1	YJ08000170		L004	1	LC13320020	1
JZ03	1	YJ08000170	1	M001	1	IN10080340	
JZ04	1	YJ08000170	1	M003	1	IN10080430	
JZ05	1	YJ08000170	- No. 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	M004	1	IM11042380	
JZ06	1	YJ08000170		R001	1	GF05102120	
JZ07	1	YJ08000170	3	R002	1	GF05151120	1.
JZ08	1	YJ08000170		R003	1		
JZ09	1	YJ08000170		11000	1.	0,00101120	110010101
JZ10	1	YJ08000170	Jack	R004	1	GJ05331010	Resistor 330Ω ±5% 1W
1				R005	1	GJ05331010	
JZ12	1	YP10001130		11	1	RM0254022	1 1
JZ13	1	YP10001130	1 -	R006		RX05040030	
JZ14	1	YP10001130		R007			1
MZ01	1	IN10080070		R009		GF05510120	
MZ02	2 1	IN10080070	Lamp, 8V 200mA	S001	1		· ·
MZ03	3 1	IN10080070		S002	1		1
MZ04		IN10080070		S003	1	(
MZ05		IN10080070	Lamp, 8V 200mA	W001	1	ZC01803020	A.C. Power Cord AC Cord
			PR01 FUSE BOARD	11			
PR01	1	YD2975001	0 P.W. Board	11			
	1	ZZ29750010	P.W. Board Assembly	11			
1	ļ			11	1		
FR01	1	FS10350800		11			
FR02		FS10100800					
FR03	1	FS10100800	Fuse, 1.0A 250V SEMKO	11			
JR01		YJ0800020	I a control of the co				
JR02		YJ0800020		11	1		
JR03		YJ0800020					
JR04		YJ0800020			1 -		
JR05			~ .				
JR06	- .	YJ0800020	·				
	- 1	1	1	-	1		
JR07	′ '	1. 1000113		-			
						L	

AMPLIFIER SECTION

	4-14
RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER PER CHANNEL, BOTH CHANNELS DRIVEN	
POWER BAND	40 Hz to 20 kHz
TPTAL HARMONIC DISTORTION	8 0
I.M.Distortion	
Damping Factor	40
PREAMPLIFIER SECTION Phono	
Input Overload at 1 kHz	2.5μV
Dynamic Range	
Input Sensitivity	2.2 mV
Input Impedance	47 kΩ
Frequency Response, RIAA	7/1dB
Signal-to-Noise Ratio	, ,
High Level (Aux and Tape)	
Input Sensitivity	150 mV
Input Impedance	100 kΩ
Frequency Response (includes power amp.)	to 60 kHz ± 1.5 dB
	to 20 kHz ± 0.5 dB
Signal-to-Noise Ratio	
Output Levels	
Tape Out (ref. 7.75 mV at Phono inputs)	525 mV
O mark to make a second control of the control of t	
Tape Out	3 kΩ
FM TUNER SECTION	
Sensitivity Sensitivity (DIN)	1.5µV (8.7 dBf)
IHF 50 dB Quieting (mono)	. 4.0μV (17.3 dBt)
Quieting Slope (Mono)	
RF Input for 30 dB Quieting	2.2μV (12 dBf)
5μV (19 dBf)	48 dB
10μV (25 dBf)	63 dB
50μV (39 dBf)	68 dB
Distortion (Mono)	
at 50 dB Quieting, 1000 Hz	0.7%
at 65 dBf (1000μV), 1000 Hz	0.4%
Distortion (Stereo)	
at 50 dB Quieting, 1000 Hz	0.8%
at 65 dBf (1000μV), 1000 Hz	0.7%
Hum and Noise	
at 65 dBf (1000μV) Mono	68 dB
Stereo	55 dB
Frequency Response	
30 Hz to 15 kHz	14 5 15
Mono	
Stereo	, ±2.∪ uB

BREBRIED BREW.

Capture hatto	
at 45 dBf($100\mu V$)	
at 65 dBf (1000μV)	
Alternate Channel Selectivity	
Spurious Response Rejection	
Image Response Rejection	
I.F. Rejection (Balanced)	
A.M. Suppression	45 dB
Stereo Separation	
100 Hz	
1000 Hz	
10 kHz	30 dB
Subcarrier Rejection	55 dB
AM TUNER SECTION	
IHF Usable Sensityity	25uV
Distortion (THD), 30% Modulation	
Signal-to-Noise Ratio	
Frequency Response (±3 dB)	
Alternate Channel Selectivity	
Image Rejection	
Spurious Response Rejection	
I.F. Rejection	
i.r. nejection	70 G L
GENERAL	
Power Requirements	
(This unit can be converted by a qualified technician to operate on 110/120/240 V \sim , 50/	
Power consumption at rated output, both channels operating (8 Ω loads)	
Idling power (volume control at zero)	Watts
Dimensions	
Panel Width	
Panel Height	
Depth	nches
Weight	
Unit alone	23 lbs
Packed for shipment	.6 lbs

VOLTAGE CONVERSION

This Model is equipped with a universal power transformer to permit operation at 110, 120, 220 and 240 V AC 50/60 Hz.

To convert the unit to the required voltage, set the plug as illustrated so that you can adjust the voltage as required.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CON-VERTING VOLTAGE.

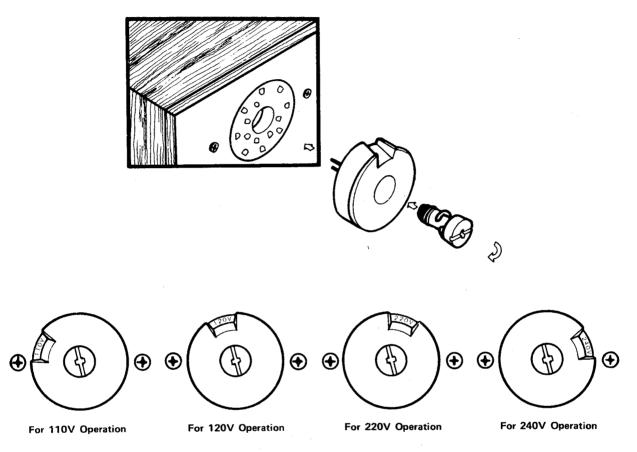
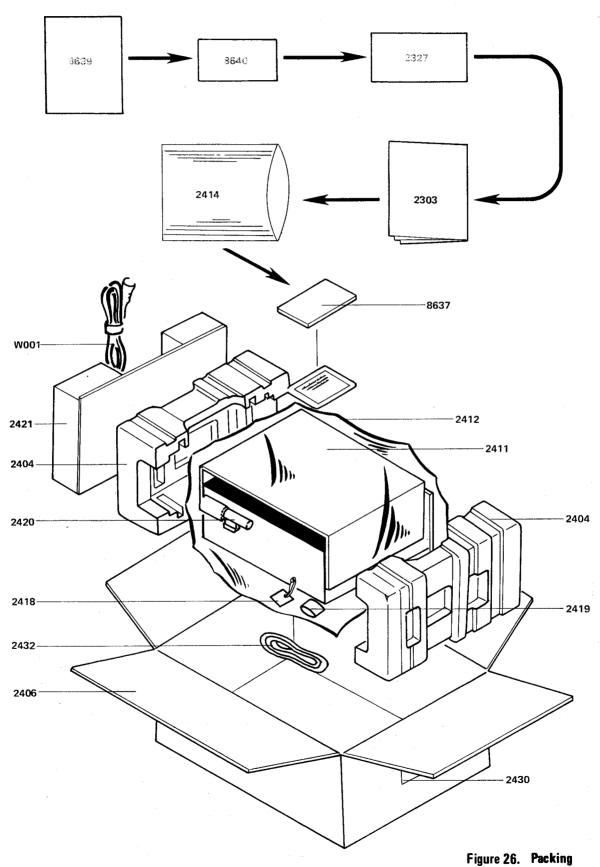


Figure 25, Voltage Conversion Chart

Instruction for the use in the range other than specified in FTZ codes

Achtung für die Leute, die in dem Gebiet wohnen, wo die FTZ-Bestimmungen vorherrschend sind.

Sollte das Gerät auch für Frequenzen auszerhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangebereit sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorspule (in der Abbildung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.



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